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# Summary of Federal Construction and Building R&D in 1994

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Subcommittee on Construction and Building  
Civilian Industrial Technology Committee  
National Science and Technology Council

Scott McGaraghan

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NO. 5849  
1996



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Scott McGaraghan

September 1996



**U.S. Department of Commerce**  
Michael Kantor, *Secretary*  
**Technology Administration**  
Mary L. Good, *Under Secretary for Technology*  
National Institute of Standards and Technology  
Arati A. Prabhakar, *Director*



**U.S. Department of Energy**  
Hazel R. O'Leary, *Secretary*  
**Energy Efficiency and Renewable Energy**  
Christine A. Ervine, *Assistant Secretary*



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## Abstract

In 1994, the federal government supported approximately \$70 billion of research and development (R&D) in many different areas through a wide variety of government agencies and contractors. Because the work is spread among so many different entities, it can be difficult to develop a clear picture of the work being done in any one area. In response to this, a new database has been developed which tracks funding from the appropriation down to the project award level, allowing for comprehensive searches. The National Science and Technology Council's Subcommittee on Construction and Building has studied the database to investigate the status of R&D in the area of construction and building. The findings of the study are presented herein.

In the course of searching the database, it became apparent that for several reasons the database is not able to provide complete data, largely due to agencies' failure to report vital information. In addition, in-house research performed by some agencies is not defined specifically as R&D, hence does not appear in the database. Despite these omissions, the search results include the vast majority of the work being funded by the federal government in the field of construction and building.

The study found that approximately \$566 million was spent on R&D for construction and building in 1994. Two agencies, the Department of Defense and the Department of Energy, together account for nearly 75% of the total. In all, 12 agencies were found to have supported R&D in this area. Many details on the projects have been included in Appendix C of this report. For additional information, readers should contact individual agencies. Contact numbers are listed in Appendix B.





## Section 1: Overview

This report describes a search of the Federal R&D database to identify research and development projects funded by the Federal Government in the field of construction and buildings and the results of that search. The study and a report were requested by the National Science and Technology Council's Subcommittee on Construction and Building. The information contained herein will be used to help coordinate the future Federal R&D effort in the area of construction and buildings.

This report is comprised of five main sections and four appendices. Section 2 outlines the search process. Due to inconsistency in the reporting practices of the separate agencies, data generated by the search may seem in some places to be incomplete or difficult to understand. Section 3 discusses these inconsistencies and explains how to read the data. The results of the search are presented in Section 4, with conclusions in Section 5. The appendices contain an outline of the search strategy used, a listing of contacts at Federal agencies, and sample listings of project award information found in the search.

## Section 2: The Search Process

The database used for this project, Research and Development in the United States (RaDiUS), is maintained by the Critical Technologies Institute (CTI) of the RAND Corporation in California and consists of two parts: a comprehensive database and a computation and retrieval engine. The data in RaDiUS have been taken directly from information submitted by the individual government agencies which engage in R&D activities, as defined by the Office of Management and Budget in Circular A-11. The database follows the dollars from Department level appropriations through subordinate agencies, offices, and bureaus, down to the project award level. At the award level, RaDiUS provides project abstracts and detailed information on who was involved, where the project was carried out, when the project was performed, and the project cost. It should be noted that these data are necessarily incomplete where the data provided by the various government agencies and received by CTI are incomplete.

The second element of RaDiUS is a high order, interactive, search, computation and retrieval engine. It allows the user to search by keyword, Federal organization, performer, or fiscal year. All that is required is World Wide Web access using a browser that supports SSL protocol such as Netscape\*, and a password furnished by CTI. For this project, a computer terminal at the National Institute of Standards and Technology (NIST) was used to carry out the search. Search results are downloadable using Excel\* and a user configurable word processor such as Microsoft Word\*.

The database contains over 200,000 awards that account for approximately \$70 billion in R&D appropriations. Due to the magnitude of RaDiUS, it is necessary to develop a taxonomy of search terms prior to beginning a search such as this. The framework for the taxonomy used for this project

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\*Proprietary software identified here was used for this search. Such identification should not be interpreted as an endorsement of this particular software.

was the six stages of a building's life: land acquisition, design, construction, operation, renovation, and demolition. Each of these categories was further divided into general issues and specific terms pertaining to each issue. The original version of the taxonomy has been included as Appendix A, although it was continually modified as new search terms were discovered.

It should also be noted at this point that, because RaDiUS is currently in a relatively early stage of development, many of the search strategies must simply be learned by trial and error. Over time, one can become familiar with the vagaries of the system and learn how most effectively to construct searches to minimize "false hits" (those which do not pertain to construction or building) while still ensuring that nothing is missed.

### Section 3: Interpreting the Data

The search results were downloaded from RaDiUS in two separate files: 1) a document with detailed project abstracts by award number (samples of which can be found in Appendix D), and 2) a spreadsheet (Appendix C) which includes the following information:

- Project- Title of the project
- Agency- Federal Department or Agency funding the project
- Bureau- subgroup within the Department or Agency
- Program- program within the subgroup
- Award Number- number assigned to the project
- Award Type- indicates type of award
- Start and End Date- dates on which the project starts and ends
- Place of Performance- city and state
- Performer Name
- Perf Type- indicates type of institution/ company performing work
- Perf Parent- Organization of which performer is a part
- Total Award Amount- total amount appropriated for the entire life of the contract
- Average Annual Funding- Total Award Amount divided by the number of years of the contract (computed by RAND based on either the actual Total Award Amount, or the estimated amount in cases where the actual amount is not given)
- FY Total Amt- expenditures for FY 94 (includes contract awards and agency in-house projects)
- FY Fed Amt- portion of FY 94 expenditures carried by the government
- FY Non-Fed Amt- portion of FY 94 expenditures provided as matching funds by non-government bodies

A note of explanation is required in regard to the funding data. As listed above, three key types of funding information are reported: 1) the Total Award Amount; 2) the Average Annual Funding Amount; and 3) the FY94 Total Funding Amount. Unfortunately, funding information was often incomplete (i.e., some entries were "blank"). These three pieces of information have been provided to allow users to interpret the figures themselves despite inconsistencies among agencies with regard to their spending and reporting practices.

An example of inconsistency is that Total Award Amount and FY94 Total Amount are not listed in many cases. This results from the reporting practices of the individual agencies. Even if the data is present, it can appear to be inconsistent since, in many cases, a major portion of the funds for a grant or contract are paid to the performer in the first year of the contract (a practice known as "front loading"). The actual amount spent in any given year may not be representative of the average amount spent over the life of the contract. Without contract length information, the Total Award Amount can be misleading as well. Recognizing this, RAND has taken the data given to them and reconstructed the likely average annual funding. This information allows the user to develop a clearer picture of the actual level of funding in a given year.

In most cases, FY94 Total Amount was reported, but Total Award Amount was not. The Department of Agriculture, for example, shows just over \$19 million in FY94 spending, but lists Total Award Amount as zero. Clearly, these two pieces of data are inconsistent. However, the existence of this problem need not call all of the data into question, but serves as a reminder that certain pieces of information have been reported inconsistently.

In short, the most accurate representation of funding levels is found by looking at the Average Annual Funding. Where funding information was provided, the average number will take care of inconsistencies relating to the front loading of contracts. Unfortunately, funding information was sometimes completely blank. As a result, any totals across all projects in the database will *underestimate* the values for each of the three types of funding information. Of the 1043 awards found in the search, 99, or roughly 10%, lacked Average Annual Funding data.

In Appendix C, the information has been reproduced in the format listed above. In order to format the spreadsheet so that all the information for a single award could be viewed on two pages, some of the fields have been shrunk, cutting off a portion of the information contained therein. Any questions regarding missing information should be directed to the agencies (contacts are listed in Appendix B).

Because a full printout of project abstracts contained in RaDiUS comprises several hundred pages, they have not been included in this report. However, a sample of the abstracts has been included as an appendix (Appendix D) to provide the reader with a sense of the format in which the abstracts can be downloaded from RaDiUS. Further information can be provided by the agencies.

In some cases a number of awards have identical abstracts. This occurs when a program is funded by a number of different sources. Each of the different funding sources is listed as a separate award, but the same abstract is used. The Award Spreadsheets (Appendix C) also show in some cases that, although the abstracts themselves are identical, the task to which the funds are assigned is different for each different award. An example is the Department of Agriculture's Forest Products Laboratory (CTI060002N0174- CTI060010N0174). The abstracts for these awards are identical, but the supported programs are different. In effect, information on the actual use of the funds comes from the Award Spreadsheets as well as the Award Abstracts.

## Section 4: Results

There were 1,043 awards found by the search using the taxonomy developed, and some system of classification was needed. In its report, NISTIR 5759, "National Planning for Construction and Building R&D," the Construction and Building Subcommittee proposed eight products that are needed to achieve the National Construction Goals. Each of the project abstracts was categorized under one of these products areas to provide an idea of the balance of the FY 94 spending. In the spreadsheet, the product is shown in the "Prod. #" column. The numbers correspond to the products as listed in Table I.

**Table 1: Product Areas**

Number	Product
1	Leadership for Innovation
2	Regulatory Reinvention
3	Skilled Workforce
4	Baselines & Measures
5	Human Factors
6	Information Systems
7	High Perf. Matls. & Systems
8	Automation

Table II shows the total award amount, average annual funding, and FY 94 total amount for each of the eight product areas (all figures shown are in thousands of dollars). Product 7, "High Performance Materials and Systems" proved to be by far the largest category with nearly \$470 million in Average Annual Funding. This large number is due to the fact that product 7 is defined so as to encompass a wide variety of R&D not covered by the other categories.

**Table II: Funding by Product Number**

Product	Number	Total Award Amount*	Average Annual Funding*	FY Total Amt*
Leadership for Innovation	1	\$9,961	\$2,436	\$2,492
Regulatory Reinvention	2	\$1,383	\$471	\$454
Skilled Workforce	3	\$9,539	\$4,128	\$3,867
Baselines & Measures	4	\$3,207	\$756	\$740
Human Factors	5	\$5,182	\$2,438	\$1,645
Information Systems	6	\$8,987	\$4,070	\$2,032
High Perf. Matls. & Systems	7	\$608,782	\$468,998	\$325,473
Automation	8	\$24,263	\$33,389	\$24,601
<b>Total:</b>		<b>\$671,304</b>	<b>\$516,686</b>	<b>\$361,305</b>

\*All dollar figure shown are in thousands of dollars.

Table III presents the same information, categorized in this case by Federal Agency. Again, all totals are listed in thousands of dollars. The reader will notice that the Average Annual Funding Total listed in Table III exceeds that listed in Table II by \$50 million. In the process of cross checking the data extracted from RaDiUS with the agencies themselves, it was discovered that there was no funding information listed for the Federal Highway Administration's (FHWA) projects. Apparently, the information sent to RAND included only project abstracts and some other general information, but actual funding figures were excluded. Conversations with FHWA showed that these projects actually represent about \$50 million in R&D funding.\*\* Accordingly, this figure has been listed at the foot of the table.

**Table III: Funding by Federal Agency**

<b>Department</b>	<b>Total Award Amount*</b>	<b>Average Annual Funding*</b>	<b>FY Total Amt*</b>
DOA	\$0	\$20,352	\$19,189
DOC	\$0	\$16,457	\$16,782
DOD	\$87,897	\$292,089	\$173,314
DOE	\$450,880	\$122,841	\$107,533
DOI	\$0	\$0	\$0
DOJ	\$0	\$356	\$0
DVA	\$0	\$125	\$76
EPA	\$0	\$2,809	\$1,097
HHS	\$0	\$11,528	\$7,643
NASA	\$70	\$70	\$70
NSF	\$132,456	\$50,060	\$35,601
<b>Subtotal:</b>	<b>\$671,303</b>	<b>\$516,685</b>	<b>\$361,305</b>
DOT	\$0	\$50,000†	\$0
<b>Total:</b>	<b>\$671,303</b>	<b>\$566,685</b>	<b>\$361,305</b>

\*All dollar figures shown are in thousands of dollars.

†Figure taken from conversation with Tom Pasko, FHWA.

### Section 5: Conclusions

Due to the problems associated with data reporting described in Sections 2 and 3 above, the information presented in this report must be considered a good estimate rather than a complete and accurate accounting of all Federal R&D projects. Errors can arise from two basic problems. First, some projects in RaDiUS which pertain to construction and building may not have been found during the search because they did not contain any of the key words used. A more

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\*\*Personal communication with Tom Pasko, FHWA, April, 1996.

significant omission comes from the fact that RaDiUS itself may not include complete information for all work being done in the area. Projects which are funded in-house, for example, and which are not funded by specific R&D appropriations, may not be in the database. In view of these possible exclusions, some cross-checking was done with individual agencies and the funding figures seem to be for the most part in agreement.

Readers interested in more detail on the program areas in which these projects are being performed should refer to Appendix C, where most of the detail is listed. As described above, these spreadsheets provide information necessary to find which agencies are doing work in any given area. For detail on the projects themselves, readers should contact the Agencies through the contacts listed in Appendix B.

## *Appendix A: Search Taxonomy*

RaDiUS, the database used in the search process for this report, contains over 200,000 awards which account for approximately \$70 billion dollars in Federal R&D funding. A search of a database of this magnitude must be carried out methodically to ensure that all relevant awards are found and to minimize the duplication of effort. Towards this end, a taxonomy of search terms was developed prior to actually begin the search process. This taxonomy, included in the following pages, uses as its basis the six stages of a buildings life:

- Land Acquisition
- Design
- Construction
- Operations and Maintenance
- Renovation
- Demolition

Each of these areas was expanded upon and search terms and phrases relating to each were added. Through the course of the search, new terms were added and existing terms were modified to reflect new understanding of search strategies and possible search areas.

## **Taxonomy of Building and Construction Terms**

### **I. Land Acquisition**

#### **A. Industries involved**

1. Developers
2. Finance
3. Insurance

#### **B. Issues/Technologies**

##### **1. General**

- a. codes and standards
- b. knowledge systems as successors to standards and books
- c. integrated project information systems
- d. collaborative decision making environments
- e. remediation of contaminated construction sites
- f. sustainable development (ecological quality)
- g. GIS

##### **2. Residential**

##### **3. Commercial**

##### **4. Industrial**

##### **5. Institutional**

##### **6. Public Works**

#### **C. R&D Goals**

##### **1. Reduce delivery time**

##### **2. Reduce project cost**

##### **3. Reduce potential for liability from pre-existing problems (contamination, etc.)**

### **II. Design**

#### **A. Industries Involved**

1. Architectural and engineering design
2. Materials manufacture

#### **B. Issues/Technologies**

##### **1. General**

##### **a. energy efficiency**

###### **i. building orientation, location**

###### **ii. materials specification**

###### **iii. appliance specification**

###### **iv. insulation materials and techniques**

###### **v. low emissivity windows (fenestration systems)**

###### **vi. building energy utilization monitoring**

###### **vii. weatherization**

##### **b. automation of design process**

###### **i. simulation and visualization**

###### **ii. computer aided design**



- c. HVAC design
  - i. indoor air quality
  - ii. duct work
  - iii. air changes
  - iv. air flow rates
  - v. ozone depletion
  - vi. CFC replacement
  - vii. heat pumps
  - viii. automated HVAC controls
  - ix. refrigerants
- d. structural stability
  - i. advanced materials
  - ii. earthquake, flood, hurricane protection (earthquake engineering)
  - iii. composite materials
  - iv. experimental stress analysis
  - v. fracture mechanics
  - vi. thermal stress analysis
- e. lighting
  - i. adequacy (quality and quantity)
  - ii. efficiency
  - iii. daylighting
  - iv. motion/light sensors
  - v. lighting controls (automation)
  - vi. light fixture design
  - vii. CFLs
  - viii. electronic ballasts
- f. building life expectancy
- g. fire protection
  - i. fire modeling
  - ii. fire safety
  - iii. fire dynamics
  - iv. fire codes
  - v. flame spread rates
  - vi. fire suppression
  - vii. smart fire detection
- h. codes and standards
  - i. safety
  - ii. energy efficiency
- i. integrated data bases and information systems
- j. knowledge systems as successors to standards and books
- k. integrated project information systems
- l. computer-integrated construction
- m. whole building systems

- n. certification system
- o. human factors
  - i. cognitive processes and uses of information
  - ii. physiology
  - iii. ergonomics
  - iv. environmental and person-machine interactions
  - v. team building and work force efficiency
  - vi. acoustics
- p. modeling
- 2. Residential
  - a. crime prevention
  - b. accident prevention
  - c. [low cost housing]
  - d. handicap access
- 3. Commercial
  - a. handicap access
- 4. Industrial
  - a. worker safe design
  - b. incorporation of environmental equipment and processes
- 5. Institutional
  - a. handicap access
- 6. Public Works
- C. R&D Goals
  - 1. Reduced delivery time
  - 2. Reduced operation and maintenance costs and energy costs
  - 3. Increased productivity and comfort
  - 4. Waste reduction
  - 5. Durability and flexibility of construction

### III. Construction

- A. Industries Involved
  - 1. Construction
  - 2. Construction equipment manufacture
  - 3. Materials manufacture
  - 4. Installed equipment manufacture
  - 5. Transportation
- B. Issues/Technologies
  - 1. General
    - a. worker safety
      - i. exposure to toxic materials
      - ii. exposure to hazardous work conditions
    - b. speed of construction
      - i. planning and scheduling (construction management technologies)

- ii. computer aided planning
      - iii. computer-integrated construction
      - iv. building technology knowledge base
      - v. all weather construction
    - c. durability of construction
      - i. masonry
      - ii. shear walls
      - iii. reinforce concrete
      - iv. precast concrete
    - d. excavation techniques
    - e. robotic construction
      - i. advanced sensors
      - ii. building automation systems
    - f. manufacture of inputs (installed equipment)
    - g. manufacture of construction equipment
    - h. high performance materials, components, and systems
      - i. advanced materials
      - ii. advanced components
      - iii. whole building systems
      - iv. connections
      - v. assessment and quality assurance technologies
      - vi. improved water sealants
      - vii. UV barriers
      - viii. coatings
    - i. remediation of contaminated construction sites
    - j. performance standards for products and processes
  - 2. Residential
  - 3. Commercial
  - 4. Industrial
  - 5. Institutional
  - 6. Public Works
    - a. underwater construction
- C. R&D Goals
  - 1. Reduced delivery time
  - 2. Reduced operation and maintenance costs and energy costs
  - 3. Waste reduction
  - 4. Durability and flexibility of structures
  - 5. Construction worker safety

#### IV. Operations and Maintenance

##### A. Industries Involved

- 1. Property Management
- 2. Manufacture of building controls

3. Maintenance and repair (building and installed equipment)
4. Security
5. Cleaning Services
- B. Issues/Technologies
  1. General
    - a. energy efficiency
      - i. use of controls (lighting, HVAC)
      - ii. [ease of influencing user behavior]
    - b. meeting user demands
      - i. furniture
    - c. durability [maintaining structures in the most efficient way possible]
    - d. integrated database and information systems
    - e. post-occupancy evaluation systems
    - f. advanced sensors
    - g. building automation systems
      - i. building control and management systems
    - h. functional flexibility
    - i. indoor air quality
  2. Residential
  3. Commercial
    - a. computer aided facilities management
  4. Industrial
    - a. computer aided facilities management
  5. Institutional
    - a. computer aided facilities management
  6. Public Works
- C. R&D Goals
  1. Reduced O&M and energy costs
  2. Increased productivity and comfort
  3. Waste Reduction

## V. Renovation

- A. Industries Involved
  1. Construction
  2. Construction equipment manufacture
  3. Materials manufacture
  4. Installed equipment manufacture
  5. Transportation
  6. Property Management
- B. Issues/Technologies
  1. General
    - a. functional flexibility
    - b. high performance materials, components, and systems

- I. advanced components
    - ii. connections
    - iii. mechanisms, models, and data for life cycle performance
    - iv. recycling and reuse
  - c. feasibility of retrofitting old structures with new technologies
  - d. hazard mitigation (i.e. lead paint, asbestos removal)
  - e. strengthening and repair of structural members
- 2. Residential
- 3. Commercial
- 4. Industrial
  - a. planned expansion capacity
- 5. Institutional
- 6. Public Works
  - a. planned expansion capacity
- C. R&D Goals
  - 1. Durability and flexibility of structures
  - 2. Construction worker safety
  - 3. Increased productivity

## VI. Demolition

- A. Industries Involved
- B. Issues/Technologies
  - 1. General
    - a. post occupancy evaluation systems
    - b. recycling and reuse
    - c. worker safety (see Construction)
    - d. remediation of contaminated sites
    - e. disposal of building materials
  - 2. Residential
  - 3. Commercial
  - 4. Industrial
  - 5. Institutional
  - 6. Public Works
- C. R&D Goals
  - 1. Waste reduction
  - 2. Worker safety

## *Appendix B: Agency Contacts*

The following list is meant to provide the reader with contact information for each of the agencies listed in this report.

<u>Agency</u>	<u>Contact</u>	<u>Address/Phone</u>
(DOA) Department of Agriculture	Hao Tran	Forest Service, USDA Staff 1 Central Audit 201 14th Street, S.W. Washington, DC 20250 Attn: HAO TRAN FPHR (202) 205-1565
(DOC) Department of Commerce	Andrew Fowell	National Institute of Standards and Technology, BFRL Bldg. 226, Room B250 Gaithersburg, MD 20899 (301) 975-6865
(DOD) Department of Defense	Thomas Rutherford	400 Army Navy Drive Suite 206 Arlington, VA 22202 (703) 604-5585
(DOE) Department of Energy	Arthur Rosenfeld	Science Advisor, Energy Efficient and Renewable Energy EE-1, 6A-034 1000 Independence Avenue, S.W. Washington, DC 20585 (202) 586-6593
(DOI) Department of Interior	Robert W. Wolf	Program, Budget & Liaison Group Bureau of Reclamation 1849 C Street, N.W. Washington, DC 20240 (202) 208-4690
(DOJ) Department of Justice	Cynthia J. Schwimmer	Financial Management Division Director Office of Justice Programs Tenth Street and Constitution Ave., N.W. Washington, DC 20530 (202) 307-3186
(DOT) Department of Transportation	Thomas Pasko	Director, Office of Advanced Research Turner-Fairbank Highway Research Center 6300 Georgetown Pike McLean, VA 22101 (703) 285-2679

(DVA) Department of Veterans Affairs	Lloyd Siegel	Director, Facilities Quality Office (087) 811 Vermont Avenue, N.W. Washington, DC 20420 (202) 565-4663
(EPA) Environmental Protection Agency	Jean Lupinacci	Air Pollution Prevention Division 401 M Street, S.W. Mail Code 6202J Washington, DC 20460 (202) 233-9137
(HHS) Department Of Health and Human Services	Melvin Myers	Centers for Disease Control and Prevention D-26, 1600 Clifton Road, N.E. Atlanta, GA 30333 (404) 639-2379
(NASA) National Aeronautics and Space Administration	Murray Hirschbein	NASA Code CD Washington, DC 20546 (202) 358-4262
(NSF) National Science Foundation	Ken Chong	Director, Structural Systems and Construction Processes 4201 Wilson Boulevard, Room 545 Arlington, VA 22230 (703) 306-1361

***Appendix C:  
Award Spreadsheets***

The following pages list all of the projects found in RaDiUS which pertain to construction and building. The format, as described in the text, has been altered slightly from the RaDiUS format to allow for easier viewing. The complete data for any one project can be found by following one row across two facing pages. Each project has been assigned a number (shown in the left-hand column on each page) to allow for easier viewing. Readers who desire further information should consult Appendix B to find contact information for each of the agencies.



	Agency	Bureau	Program	Project	Award Number	Award Type
1	DOA	CSREES	Special research grants		91341585868	E/G
2	DOA	CSREES	National Research Initiative	Natural resources and environment	92371037979	E/G
3	DOA	CSREES	National Research Initiative	Processing for value added	92371037986	E/G
4	DOA	CSREES	National Research Initiative	Processing for value added	92371037987	E/G
5	DOA	CSREES	National Research Initiative	Processing for value added	92371038030	E/G
6	DOA	CSREES	National Research Initiative	Processing for value added	92371038031	E/G
7	DOA	CSREES	National Research Initiative	Processing for value added	92371038081	E/G
8	DOA	CSREES	National Research Initiative	Processing for value added	92375008209	E/G
9	DOA	CSREES	Special research grants		93341588403	E/G
10	DOA	CSREES	National Research Initiative	Processing for value added	93371039268	E/G
11	DOA	CSREES	National Research Initiative	Processing for value added	93371039323	E/G
12	DOA	CSREES	National Research Initiative	Processing for value added	93371039395	E/G
13	DOA	CSREES	National Research Initiative	Processing for value added	93371039482	E/G
14	DOA	CSREES	National Research Initiative	Plant systems	94371031019	E/G
15	DOA	CSREES	National Research Initiative	Markets, trade & policy	94371031023	E/G
16	DOA	CSREES	McIntire-Stennis cooperative forestry	AL - Alabama (Total \$ from FAADS)	ALA-11-016	E/G
17	DOA	CSREES	McIntire-Stennis cooperative forestry	AL - Alabama (Total \$ from FAADS)	ALA00974	E/G
18	DOA	CSREES	McIntire-Stennis cooperative forestry	AL - Alabama (Total \$ from FAADS)	ALA00985	E/G
19	DOA	CSREES	Payments under the Hatch Act	CA - California (Total \$ from FAADS)	CA-D*-END-4517-H	E/G
20	DOA	CSREES	Payments under the Hatch Act	CA - California (Total \$ from FAADS)	CA-D*-END-5085-H	E/G
21	DOA	CSREES	Payments under the Hatch Act	CA - California (Total \$ from FAADS)	CA-R*-ENT-4315-H	E/G
22	DOA	CSREES	Payments under the Hatch Act	CO - Colorado (Total \$ from FAADS)	COL00708	E/G
23	DOA	FS	Forest protection	Intramural activities	CTI060002N0174	I/IP
24	DOA	FS	Resource analyses research	Intramural activities	CTI060004N0174	I/IP
25	DOA	FS	Forest management research	Intramural activities	CTI060006N0174	I/IP
26	DOA	FS	Forest products and harvesting research	Intramural activities	CTI060010N0174	I/IP
27	DOA	FS	Ecosystem research	Intramural activities	CTI060012N0174	I/IP
28	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4714-01	I/IP
29	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4714-02	I/IP
30	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4714-03	I/IP
31	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4714-04	I/IP
32	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4715-01	I/IP
33	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4715-03	I/IP
34	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4716-02	I/IP
35	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4716-03	I/IP
36	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4718-02	I/IP
37	DOA	FS	Forest products and harvesting research	Intramural activities	FPL-4719-04	I/IP
38	DOA	CSREES	Payments under the Hatch Act	IL - Illinois (Total \$ from FAADS)	ILLU-10-0372	E/G
39	DOA	CSREES	McIntire-Stennis cooperative forestry	IN - Indiana (Total \$ from FAADS)	IND059028MS	E/G
40	DOA	CSREES	McIntire-Stennis cooperative forestry	KY - Kentucky (Total \$ from FAADS)	KY00642	E/G
41	DOA	CSREES	Payments under the Hatch Act	LA - Louisiana (Total \$ from FAADS)	LAB02887	E/G
42	DOA	CSREES	McIntire-Stennis cooperative forestry	MN - Minnesota (Total \$ from FAADS)	MIN-43-064	E/G
43	DOA	CSREES	McIntire-Stennis cooperative forestry	MS - Mississippi (Total \$ from FAADS)	MISZ-6713	E/G
44	DOA	CSREES	McIntire-Stennis cooperative forestry	MS - Mississippi (Total \$ from FAADS)	MISZ-6718	E/G
45	DOA	CSREES	McIntire-Stennis cooperative forestry	NC - North Carolina (Total \$ from FAADS)	NC204141	E/G
46	DOA	CSREES	Payments under the Hatch Act	NY - New York (Total \$ from FAADS)	NYC-123479	E/G
47	DOA	CSREES	McIntire-Stennis cooperative forestry	PA - Pennsylvania (Total \$ from FAADS)	PEN03088	E/G
48	DOA	CSREES	Payments under the Hatch Act	PA - Pennsylvania (Total \$ from FAADS)	PEN03343	E/G
49	DOA	CSREES	Payments under the Hatch Act	SC - South Carolina (Total \$ from FAADS)	SC01476	E/G
50	DOA	CSREES	McIntire-Stennis cooperative forestry	SC - South Carolina (Total \$ from FAADS)	SCZ00194-FR	E/G
51	DOA	FS	Forest products and harvesting research	Intramural activities	SE-4702-02	I/IP
52	DOA	FS	Forest protection	Intramural activities	SO-4502-03	I/IP
53	DOA	CSREES	McIntire-Stennis cooperative forestry	TN - Tennessee (Total \$ from FAADS)	TEN00056-MS	E/G
54	DOA	CSREES	Payments under the Hatch Act	TX - Texas (Total \$ from FAADS)	TEX08047	E/G
55	DOA	CSREES	Payments under the Hatch Act	VA - Virginia (Total \$ from FAADS)	VA-135443	E/G
56	DOA	CSREES	McIntire-Stennis cooperative forestry	VA - Virginia (Total \$ from FAADS)	VA-136554	E/G
57	DOA	CSREES	Payments under the Hatch Act	WI - Wisconsin (Total \$ from FAADS)	WIS03565	E/G
58	DOA	CSREES	Payments under the Hatch Act	WI - Wisconsin (Total \$ from FAADS)	WIS03662	E/G
59	DOA	CSREES	Payments under the Hatch Act	WA - Washington (Total \$ from FAADS)	WNP00979	E/G
60	DOA	CSREES	McIntire-Stennis cooperative forestry	WA - Washington (Total \$ from FAADS)	WNZ-PSE-549	E/G
61	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB1675	E/G
62	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB1D1171	E/G
63	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB1D1175	E/G
64	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB1D1176	E/G
65	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB1D1177	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
1	DOA	Mar-91	Feb-95	East Lansing	MI	MICHIGAN STATE UNIVER	EdInst			217.663				7
2	DOA	Sep-92	Sep-94	Corvallis	OR	OREGON STATE UNIVERS	EdInst			77				7
3	DOA	Sep-92	Sep-94	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst			80				7
4	DOA	Sep-92	Sep-94	Madison (Town	WI	UNIVERSITY OF WISCONS	EdInst			118				7
5	DOA	Sep-92	Sep-95	Auburn	AL	AUBURN UNIVERSITY	EdInst			70				7
6	DOA	Sep-92	Sep-95	Bangor	ME	UNIVERSITY OF MAINE	EdInst			90				7
7	DOA	Sep-92	Sep-94	Mississippi Stat	MS	MISSISSIPPI STATE UNIVE	EdInst			45				7
8	DOA	Sep-92	Sep-94	College Station	TX	TEXAS A&M RESEARCH F	EdInst			76				7
9	DOA	Jul-93	Jun-95	Morgantown	WV	WV UNIVERSITY RESEAR	EdInst			55.996				7
10	DOA	Sep-93	Sep-95	Madison (Town	WI	USDA FOREST SERVICE	EdInst			110				7
11	DOA	Sep-93	Sep-95	Madison (Town	WI	UNIVERSITY OF WISCONS	EdInst			110				7
12	DOA	Sep-93	Sep-95	Moscow	ID	UNIVERSITY OF IDAHO	EdInst			58				7
13	DOA	Sep-93	Sep-95	Corvallis	OR	OREGON STATE UNIVERS	EdInst			55				7
14	DOA	Sep-94	Sep-96	Madison (Town	WI	USDA FOREST SERVICE	EdInst			78.928	78.928	78.928	0	7
15	DOA	Sep-94	Aug-96	Pullman	WA	WASHINGTON STATE UNI	EdInst			110	110	110	0	7
16	DOA	Oct-93	Sep-98	Auburn		SCHOOL OF FORESTRY; A	NotSpec							7
17	DOA	Oct-88	Sep-94	Auburn		SCHOOL OF FORESTRY; A	NotSpec							7
18	DOA	Oct-90	Sep-95	Auburn		SCHOOL OF FORESTRY; A	NotSpec							7
19	DOA	Oct-90	Sep-95	Davis		ENVIRONMENTAL DESIGN	NotSpec							7
20	DOA	Oct-93	Sep-98	Davis		ENVIRONMENTAL DESIGN	NotSpec							7
21	DOA	Aug-93	Sep-97	Riverside		ENTOMOLOGY; UNIVERSI	NotSpec							7
22	DOA	Jul-94	Jun-97	Fort Collins		CIVIL ENGINEERING; COL	NotSpec							7
23	DOA	Oct-92	Sep-94			Forest Products Laboratory	NotSpec			3000	3000	3000		7
24	DOA	Oct-92	Sep-94			Forest Products Laboratory	NotSpec			1000	1000	1000		7
25	DOA	Oct-92	Sep-94			Forest Products Laboratory	NotSpec							7
26	DOA	Oct-92	Sep-94			Forest Products Laboratory	NotSpec			15000	15000	15000		7
27	DOA	Oct-92	Sep-94			Forest Products Laboratory	NotSpec							7
28	DOA	Oct-91	Oct-96	Madison		FOREST PRODUCTS LABO	FedGov							7
29	DOA	Oct-91	Oct-96	Madison		FOREST PRODUCTS LABO	FedGov							7
30	DOA	Oct-91	Oct-96	Madison		FOREST PRODUCTS LABO	FedGov							7
31	DOA	Oct-91	Oct-96	Madison		FOREST PRODUCTS LABO	FedGov							7
32	DOA	Nov-91	Nov-96	Madison		FOREST PRODUCTS LABO	FedGov							7
33	DOA	Nov-91	Nov-96	Madison		FOREST PRODUCTS LABO	FedGov							7
34	DOA	May-92	May-97	Madison		FOREST PRODUCTS LABO	FedGov							7
35	DOA	May-92	May-97	Madison		FOREST PRODUCTS LABO	FedGov							7
36	DOA	Nov-90	Nov-95	Madison		FOREST PRODUCTS LABO	FedGov							7
37	DOA	Mar-92	Mar-97	Madison		BROWNWOOD FIELD STA	FedGov							7
38	DOA	Oct-92	Sep-97	Urbana		AGRI ENGINEERING; UNIV	NotSpec							7
39	DOA	Oct-90	Sep-95	West Lafayette		FORESTRY & NATURAL RI	NotSpec							7
40	DOA	Jul-91	Jun-96	Lexington		FORESTRY; UNIVERSITY	NotSpec							7
41	DOA	Aug-91	Dec-93	Baton Rouge		AGRI ENGINEERING; LOU	NotSpec							7
42	DOA	Oct-89	Sep-95	St. Paul		FOREST PRODUCTS; UNIV	NotSpec							7
43	DOA	Jul-91	Jun-95	Mississippi State		FOREST PRODUCTS; FOR	NotSpec							7
44	DOA	Jul-91	Jun-95	Mississippi State		FOREST PRODUCTS; FOR	NotSpec							7
45	DOA	Jun-94	Sep-98	Raleigh		WOOD AND PAPER SCIEN	NotSpec							7
46	DOA	Oct-92	Sep-97	Ithaca		AGRI ENGINEERING; COR	NotSpec							7
47	DOA	Jan-90	Dec-94	University Park		SCHOOL OF FOREST RES	NotSpec							7
48	DOA	Oct-92	Sep-97	University Park		AGRI & BIOLOGICAL ENGI	NotSpec							7
49	DOA	Oct-92	Dec-96	Clemson		ENTOMOLOGY; CLEMSON	NotSpec							7
50	DOA	Apr-93	Jun-95	Clemson		FOREST RESOURCES; CL	NotSpec							7
51	DOA	Dec-88	Dec-93	Blacksburg		SOUTHEASTERN FOREST	FedGov							7
52	DOA	Nov-88	Nov-93	Gulfport		SOUTHERN FOREST EXP	FedGov							7
53	DOA	Oct-90	Sep-95	Knoxville		FORESTRY FISHERIES &	NotSpec							7
54	DOA	Apr-91	Apr-96	College Station		AGRI ENGINEERING; TEX	NotSpec							7
55	DOA	Jan-94	Dec-98	Blacksburg		AGRI ENGINEERING; VIRG	NotSpec							7
56	DOA	Jan-91	Dec-95	Blacksburg		WOOD SCIENCE & FORES	NotSpec							7
57	DOA	Oct-92	Sep-96	Madison		AGRI ENGINEERING; UNIV	NotSpec							7
58	DOA	Oct-93	Sep-97	Madison		AGRI ENGINEERING; UNIV	NotSpec							7
59	DOA	Jul-92	Jun-95	Puyallup		ANIMAL SCIENCE; WASH	NotSpec							7
60	DOA	Oct-93	Sep-95	Seattle		FOREST RESOURCES; UN	NotSpec							7
61	DOC	Sep-94	Aug-95	Norwood	MA	FACTORY MUTUAL RESEA	NonprofNonEd			48.705	69.185	48.705	20.48	7
62	DOC	Sep-92	Nov-95	Piscataway (Ne	NJ	RUTGERS, THE STATE UN	EdInst			30.191				7
63	DOC	Sep-92	Aug-94	Ann Arbor	MI	UNIVERSITY OF MICHIGA	EdInst			68.671				7
64	DOC	Sep-92	Aug-94	Blacksburg	VA	VIRGINIA POLYTECHNIC II	EdInst			60.691				7
65	DOC	Aug-92	Aug-94	Norwood	MA	FACTORY MUTUAL RESEA	IndBus			96.095	26	26	0	7

	Agency	Bureau	Program	Project	Award Number	Award Type
66	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2D1281	E/G
67	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2D1290	E/G
68	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2D1291	E/G
69	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2D1292	E/G
70	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2D1300	E/G
71	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB2H1232	E/G
72	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1394	E/G
73	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1401	E/G
74	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1409	E/G
75	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1413	E/G
76	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1436	E/G
77	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1438	E/G
78	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1439	E/G
79	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1440	E/G
80	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1442	E/G
81	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1443	E/G
82	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB3D1444	E/G
83	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1531	E/G
84	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1543	E/G
85	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1587	E/G
86	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1674	E/G
87	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1683	E/G
88	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4D1705	E/G
89	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	60NANB4H1652	E/CA
90	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	70NANB1H1173	E/CA
91	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	70NANB2D1291	E/G
92	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	70NANB3D1300	E/CA
93	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	70NANB3H1434	E/CA
94	DOC	NIST	Industrial technology services	Advanced Technology Program	70NANB4H1510	E/CA
95	DOC	NIST	Industrial technology services	Advanced Technology Program	70NANB4H1517	E/CA
96	DOC	NIST	Building and Fire Research Laboratory	Extramural Activities	70NANB4H1554	E/CA
97	DOC	NIST	Building and Fire Research Laboratory	Structures Division	CTI86103	I/IP
98	DOC	NIST	Building and Fire Research Laboratory	Structures Division	CTI86106	I/IP
99	DOC	NIST	Building and Fire Research Laboratory	Building Materials Division	CTI86201	I/IP
100	DOC	NIST	Building and Fire Research Laboratory	Building Materials Division	CTI86202	I/IP
101	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86301	I/IP
102	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86302	I/IP
103	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86304	I/IP
104	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86305	I/IP
105	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86306	I/IP
106	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86307	I/IP
107	DOC	NIST	Building and Fire Research Laboratory	Building Environment Division	CTI86308	I/IP
108	DOC	NIST	Building and Fire Research Laboratory	Fire Safety Engineering Division	CTI86401	I/IP
109	DOC	NIST	Building and Fire Research Laboratory	Fire Safety Engineering Division	CTI86406	I/IP
110	DOC	NIST	Building and Fire Research Laboratory	Fire Safety Engineering Division	CTI86407	I/IP
111	DOC	NIST	Building and Fire Research Laboratory	Fire Science Division	CTI86501	I/IP
112	DOC	NIST	Building and Fire Research Laboratory	Fire Science Division	CTI86503	I/IP
113	DOC	NIST	Building and Fire Research Laboratory	Fire Science Division	CTI86504	I/IP
114	DOC	NOAA	National Ocean Service	Observation & assessment	NA47OR0367	E/CA
115	DOD	ARMY	0602716A - Human Factors Engineering Te	AH70 - Human Factors Engineering Systems De	DA0D4922	I/IP
116	DOD	ARMY	0602784A - Military Engineering Technolog	AT42 - Cold Regions Engineering Technology	DA301642	I/IP
117	DOD	ARMY	0601102A - Defense Research Sciences	BH57 - Scientific Problems with Military Appli	DA311314	E/G
118	DOD	ARMY	0601102A - Defense Research Sciences	BH57 - Scientific Problems with Military Appli	DA312039	E/C
119	DOD	ARMY	0601102A - Defense Research Sciences	AT22 - Soil and Rock Mechanics	DA313334	I/IP
120	DOD	ARMY	0601102A - Defense Research Sciences	AT22 - Soil and Rock Mechanics	DA313338	I/IP
121	DOD	ARMY	0601102A - Defense Research Sciences	AT24 - Snow, Ice and Frozen Soil	DA319229	I/IP
122	DOD	ARMY	0601102A - Defense Research Sciences	AT24 - Snow, Ice and Frozen Soil	DA319229	I/IP
123	DOD	ARMY	0601102A - Defense Research Sciences	AT24 - Snow, Ice and Frozen Soil	DA319230	I/IP
124	DOD	ARMY	0603102A - Materials & Structure Advance	DJ01 - COMBAT ENGINEERING COMPONENT	DA319715	I/IP
125	DOD	ARMY	0602784A - Military Engineering Technolog	AT40 - Mobility & Weapons Effects Technology	DA320002	I/IP
126	DOD	ARMY	0602784A - Military Engineering Technolog	AT40 - Mobility & Weapons Effects Technology	DA320004	I/IP
127	DOD	ARMY	0601102A - Defense Research Sciences	AT22 - Soil and Rock Mechanics	DA320020	I/IP
128	DOD	ARMY	0602784A - Military Engineering Technolog	AT40 - Mobility & Weapons Effects Technology	DA320029	I/IP
129	DOD	ARMY	0601102A - Defense Research Sciences	AT22 - Soil and Rock Mechanics	DA320068	I/IP
130	DOD	ARMY	0602784A - Military Engineering Technolog	AT40 - Mobility & Weapons Effects Technology	DA320070	I/IP



	Agency	Bureau	Program	Project	Award Number	Award Type
131	DOD	ARMY	0602720A - Environmental Quality Technol	AF25 - Military Environmental Restoration Techn	DA320090	I/IP
132	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA320105	I/IP
133	DOD	ARMY	0601102A - Defense Research Sciences	AT22 - Soil and Rock Mechanics	DA320110	I/IP
134	DOD	ARMY	0602211A - Aviation Technology	A47A - Aeronautical & Aircraft Weapons Techno	DA320952	E/C
135	DOD	ARMY	0605810A - RDT&E Support for Nondevelo	DE65 - NDI Testing	DA325493	I/IP
136	DOD	ARMY	0601102A - Defense Research Sciences	BH57 - Scientific Problems with Military Applica	DA328912	E/C
137	DOD	ARMY	0603308A - Army Missile Defense Sys Integ	Project number unspecified	DA337099	E/C
138	DOD	ARMY	0603308A - Army Missile Defense Sys Integ	Project number unspecified	DA347123	E/C
139	DOD	ARMY	0601102A - Defense Research Sciences	BH57 - Scientific Problems with Military Applica	DA351026	E/C
140	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA359209	I/IP
141	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA359210	I/IP
142	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA359211	I/IP
143	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA359212	I/IP
144	DOD	ARMY	0602784A - Military Engineering Technology	AT40 - Mobility & Weapons Effects Technology	DA359214	I/IP
145	DOD	ARMY	0601102A - Defense Research Sciences	BT25 - Environmental Research - Corps of Engin	DAAH049310293	E/G
146	DOD	ARMY	0601102A - Defense Research Sciences	A305 - Automatic Target Recognition Research	DAAH049310307	E/G
147	DOD	ARMY	0601102A - Defense Research Sciences	AH42 - Materials and Mechanics	DAAH049320012	E/CA
148	DOD	ARMY	0601102A - Defense Research Sciences	BS04 - Military Pollutants and Health Hazards	DAAH049320018	E/G
149	DOD	DAA	BMDO/0603218C - Research and Support	Project number unspecified	DC900027	E/C
150	DOD	AirForce	0602201F - Aerospace Flight Dynamics	2402 - Vehicle Equipment	DF120491	E/C
151	DOD	DAA	OSD/0601103D - University Research Initia	Project number unspecified	DF290017	E/G
152	DOD	DAA	OSD/0602228D - Historically Black Coll/Un	Project number unspecified	DF290117	E/C
153	DOD	AirForce	0601102F - Defense Research Sciences	2303 - Chemistry	DF291785	E/C
154	DOD	AirForce	0601102F - Defense Research Sciences	2303 - Chemistry	DF291790	E/G
155	DOD	AirForce	0602202F - Human Systems Technology	7184 - Human System Interface Technologies	DF316985	E/C
156	DOD	AirForce	0602202F - Human Systems Technology	6302 - Occupational and Environmental Toxic H	DF318045	I/IP
157	DOD	AirForce	0602202F - Human Systems Technology	7231 - Safety and Aircrew Effectiveness in Mech	DF319395	E/C
158	DOD	AirForce	0602202F - Human Systems Technology	7184 - Human System Interface Technologies	DF319575	E/C
159	DOD	AirForce	0603106F - Logistics Systems Technology	2745 - Logistics for Contingency Operations and	DF320035	E/C
160	DOD	AirForce	0605502F - Small Business Innovative Res	Project number unspecified	DF322865	E/C
161	DOD	AirForce	0602601F - Advanced Weapons	Project number unspecified	DF344652	I/IP
162	DOD	AirForce	0602302F - Rocket Propulsion & Astronaut	3059 - MISSILE SYSTEMS PROPULSION TEC	DF345923	E/C
163	DOD	AirForce	0601101F - In-House Laboratory Independe	Project number unspecified	DF406004	I/IP
164	DOD	AirForce	0603723F - Civil & Environmental Engineer	2104 - Air Base Operability Advanced Technol	DF406006	I/IP
165	DOD	AirForce	0602206F - Civil Engineering & Environmer	2673 - Air Base Operability Technology	DF406012	NS
166	DOD	AirForce	0603723F - Civil & Environmental Engineer	2103 - Environmental Quality Advanced Techno	DF407330	E/C
167	DOD	AirForce	0603723F - Civil & Environmental Engineer	2103 - Environmental Quality Advanced Techno	DF407334	NS
168	DOD	AirForce	0602601F - Advanced Weapons	Project number unspecified	DF407335	I/IP
169	DOD	AirForce	0601101F - In-House Laboratory Independe	Project number unspecified	DF407349	I/IP
170	DOD	AirForce	0603723F - Civil & Environmental Engineer	2104 - Air Base Operability Advanced Technol	DF407354	NS
171	DOD	AirForce	0603723F - Civil & Environmental Engineer	2104 - Air Base Operability Advanced Technol	DF407367	E/C
172	DOD	AirForce	0603723F - Civil & Environmental Engineer	2104 - Air Base Operability Advanced Technol	DF407383	I/IP
173	DOD	AirForce	0605502F - Small Business Innovative Res	Project number unspecified	DF407456	NS
174	DOD	AirForce	0605502F - Small Business Innovative Res	Project number unspecified	DF407463	E/C
175	DOD	AirForce	0602201F - Aerospace Flight Dynamics	Project number unspecified	DF407465	NS
176	DOD	AirForce	0602206F - Civil Engineering & Environmer	2673 - Air Base Operability Technology	DF407469	NS
177	DOD	AirForce	0602206F - Civil Engineering & Environmer	2673 - Air Base Operability Technology	DF407471	NS
178	DOD	AirForce	0602206F - Civil Engineering & Environmer	2673 - Air Base Operability Technology	DF407474	I/IP
179	DOD	AirForce	0602206F - Civil Engineering & Environmer	2673 - Air Base Operability Technology	DF407477	I/IP
180	DOD	DAA	BMDO/0603218C - Research and Support	1601 - INNOVATIVE SCIENCE AND TECHNO	DF450012	E/C
181	DOD	DAA	BMDO/0603218C - Research and Support	1601 - INNOVATIVE SCIENCE AND TECHNO	DF450987	E/C
182	DOD	DAA	BMDO/0603218C - Research and Support	Project number unspecified	DF451107	E/C
183	DOD	DAA	BMDO/0603218C - Research and Support	Project number unspecified	DF451108	E/C
184	DOD	AirForce	0603112F - Advanced Materials for Weap	2100 - Laser Hardened Materials	DF500010	E/C
185	DOD	AirForce	0602102F - Materials	2418 - Metallic Structural Materials	DF501744	E/C
186	DOD	AirForce	0601102F - Defense Research Sciences	2302 - Solid Mechanics and Structures	DF516590	E/C
187	DOD	DAA	BMDO/0603218C - Research and Support	1601 - INNOVATIVE SCIENCE AND TECHNO	DF525650	E/G
188	DOD	DAA	BMDO/0603217C - Ballistic Missile Defense	1503 - Power & Power Condit	DF527123	E/C
189	DOD	AirForce	0602601F - Advanced Weapons	Project number unspecified	DF527945	E/C
190	DOD	AirForce	0602601F - Advanced Weapons	5797 - Advanced Weapons Technology and Ass	DF528026	E/C
191	DOD	AirForce	0602601F - Advanced Weapons	5797 - Advanced Weapons Technology and Ass	DF528044	E/C
192	DOD	AirForce	0602601F - Advanced Weapons	5797 - Advanced Weapons Technology and Ass	DF528045	E/C
193	DOD	DAA	ARPA/0602708E - Integrated Command &	Project number unspecified	DF553102	E/C
194	DOD	DAA	ARPA/0603739E - Manufacturing Technolo	Project number unspecified	DF663681	E/C
195	DOD	DAA	ARPA/0603739E - Manufacturing Technolo	Project number unspecified	DF664312	E/C



	Agency	Bureau	Program	Project	Award Number	Award Type
196	DOD	DAA	ARPA/0603739E - Manufacturing Technolo	Project number unspecified	DF664313	E/C
197	DOD	AirForce	0602102F - Materials	2418 - Metallic Structural Materials	DF681720	I/IP
198	DOD	DAA	ARPA/0602712E - Materials & Electronics	Project number unspecified	DF851820	I/IP
199	DOD	DAA	OSD/0601103D - University Research Initia	Project number unspecified	DN052881	E/G
200	DOD	DAA	ARPA/0602301E - Computing Systems & C	Project number unspecified	DN052956	E/G
201	DOD	DAA	ARPA/0602712E - Materials & Electronics	Project number unspecified	DN054748	E/G
202	DOD	NAVY	0601153N - Defense Research Sciences	Project number unspecified	DN153045	I/IP
203	DOD	DAA	ARPA/0602712E - Materials & Electronics	Project number unspecified	DN304176	E/C
204	DOD	DAA	ARPA/0602712E - Materials & Electronics	Project number unspecified	DN304177	E/C
205	DOD	NAVY	0603725N - Facilities Improvement	Project number unspecified	DN387314	I/IP
206	DOD	NAVY	0602233N - Readiness, Training, Environ. C	Project number unspecified	DN412037	I/IP
207	DOD	NAVY	0601153N - Defense Research Sciences	Project number unspecified	DN480509	I/IP
208	DOD	NAVY	0601153N - Defense Research Sciences	Project number unspecified	DN555025	E/G
209	DOD	NAVY	0603721N - Environmental Protection	S0401 - Shipboard Waste Management	DN592926	I/IP
210	DOD	NAVY	0603724N - Navy Energy Program	R0829 - Energy Conservation (ADV)	DN905080	I/IP
211	DOE	WFO			15930212	E/C
212	DOE	WFO			A1817	E/C
213	DOE	DERWM	Groundwater & soil cleanup		AMES5078	E/C
214	DOE	DERWM	Groundwater & soil cleanup		AMES5081	E/C
215	DOE	EnCon	Transportation sector	Materials technology/Vehicle systems materals	ANL158	E/C
216	DOE	EnSup	Nuclear energy	Facilities operation	ANL176	E/C
217	DOE	EnCon	Buildings Sector	Building systems/Best practices	ANL315	E/C
218	DOE	WFO			ANL622	E/C
219	DOE	WFO			ANL653	E/C
220	DOE	WFO			ANL771	E/C
221	DOE	CRADA			ANL9402101	E/CA
222	DOE	WFO			ANL981	E/C
223	DOE	WFO			ANL989	E/C
224	DOE	WFO			BAT411	E/C
225	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Space co	BHL813	E/C
226	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Space co	BHL814	E/C
227	DOE	EnCon	Buildings Sector	Building systems/Best practices	BHL815	E/C
228	DOE	EnCon	Buildings Sector	Building systems/Best practices	BHL816	E/C
229	DOE	MatSup	Materials support		BHL824	E/C
230	DOE	GenSci	Nuclear physics	Low energy nuclear physics	BHL859	E/C
231	DOE	EnSup	Basic energy sciences	HPCC/Applied mathematical sciences - Math, d	BHL898	E/C
232	DOE	EnSup	Basic energy sciences	HPCC/Applied Mathematical Sciences - Adv co	BHL901	E/C
233	DOE	LDRD			BNL1025	E/C
234	DOE	EnSup	Biological and environmental research	Environmental research - Atmospheric science	BNL1040	E/C
235	DOE	EnSup	Basic energy sciences	HPCC/Applied Mathematical Sciences - Adv co	BNL1071	E/C
236	DOE	MatSup	Materials support		BNL1106	E/C
237	DOE	EnSup	Nuclear energy	Facilities operation	BNL1115	E/C
238	DOE	WFO			BNL235	E/C
239	DOE	WFO			BNL256	E/C
240	DOE	WFO			BNL323	E/C
241	DOE	WFO			BNL338	E/C
242	DOE	EnSup	Energy storage systems and hydrogen R&D	Energy storage systems/Utility sector/Thermal st	CEAL001	E/C
243	DOE	EnSup	Geothermal energy/Geothermal technology	Conversion	CEAM009	E/C
244	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Refrigerat	CECE002(B)	E/C
245	DOE	EnSup	Solar energy	Solar building technology research	CEEB011	E/C
246	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Space co	CEEC001	E/C
247	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Refrigerat	CEEC002	E/C
248	DOE	EnCon	Buildings Sector	Building equipment/Heating & cooling/Space co	CEEC006	E/C
249	DOE	EnCon	Buildings Sector	Buildingsystems/Residential building	CEEC011	E/C
250	DOE	EnCon	Buildings Sector	Building systems/Retirofit technologies	CEEC022	E/C
251	DOE	EnCon	Buildings Sector	Building equipment/Appliances	CEEC026	E/C
252	DOE	EnCon	Buildings Sector	Building systems/Best practices	CEEC033	E/C
253	DOE	EnCon	Buildings Sector	Building systems/Best practices	CEEC035	E/C
254	DOE	EnCon	Buildings Sector	Buildingsystems/Residential building	CEEC038	E/C
255	DOE	EnCon	Buildings Sector	Building equipment/Appliances	CEEC039	E/C
256	DOE	EnCon	Buildings Sector	Building equipment/Appliances	CEEC040	E/C
257	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	CEEC114	E/C
258	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	CEEC214	E/C
259	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	CEEC314	E/C
260	DOE	EnCon	Industry sector	Process efficiency/Materials & materials process	CEED001	E/C

## C&amp;B R&amp;D Report

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
196	DOD	Jul-94				NO PERFORMER INFO AV	NotSpec							7
197	DOD	Oct-76	Sep-95	Wright-Patterson AFB	OH	MLSE MATERIALS ENGINE	FedG	AIR FORCE MATERIALS LAB WRIGHT-PATTERSON						7
198	DOD	Oct-84	Sep-99	Wright-Patterson AFB	OH	MLLN MATERIALS BEHAVI	FedG	AIR FORCE MA	67.5					7
199	DOD	Jul-92	Jun-95	Pasadena		CALIFORNIA INSTITUTE O	PriEd	CALIF	2170	1085				7
200	DOD	Jul-92	Jun-95			NO PERFORMER INFO AV	NotSpec		1969	679.5				8
201	DOD	May-94	Apr-97	Cambridge		MASSACHUSETTS INSTIT	PriEd	MASSA	2143	729	773	773		7
202	DOD	Oct-92		Washington DC		NAVAL RESEARCH LABOF	FedG	NAVAL RESEAF		100				7
203	DOD	May-94	May-97	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	PriEd	MICHIG	499	13688.33	10231	10231		8
204	DOD	Apr-94	Apr-97	Salt Lake City	UT	UNIVERSITY OF UTAH DE	PriEd	UTAH	2600	13688.33	10231	10231		8
205	DOD	Jan-83	Oct-96	Port Hueneme		NAVAL CIVIL ENGINEERIN	FedG	NAVAL CIVIL EN		152.5				8
206	DOD	Oct-91	Sep-95			NO PERFORMER INFO AV	NotSpec			135				6
207	DOD	Oct-83		Washington DC		NAVAL RESEARCH LABOF	FedG	NAVAL RESEAF		299				7
208	DOD	Nov-88	Oct-95	Seattle		UNIVERSITY OF WASHING	EdIns	WASH	600	83.5	80	80		7
209	DOD	Oct-89				NO PERFORMER INFO AV	NotSpec							7
210	DOD	Oct-84				NO PERFORMER INFO AV	NotSpec							7
211	DOE			Albuquerque		Sandia National Laboratories	NotSpec		345	130.2	130.2	130.2		7
212	DOE			Albuquerque		Sandia National Laboratories	NotSpec		4500	34.3	34.3	34.3		7
213	DOE			Ames		Ames Laboratory	NotSpec		255	255	255	255		7
214	DOE			Ames		Ames Laboratory	NotSpec		150	150	150	150		7
215	DOE			Argonne		Argonne National Laboratory	NotSpec		6175	1008.333	1100	1100		7
216	DOE			Argonne		Argonne National Laboratory	NotSpec		25281	4827	5100	5100		7
217	DOE	Oct-90		Argonne		Argonne National Laboratory	NotSpec		33	11	15	15		7
218	DOE	Jan-93	Dec-93	Argonne		Argonne National Laboratory	NotSpec		210	210				7
219	DOE	Dec-91	Mar-94	Argonne		Argonne National Laboratory	NotSpec		4698	299				7
220	DOE	Nov-91	Aug-95	Argonne		Argonne National Laboratory	NotSpec		500	500				7
221	DOE	Aug-94	Jun-96	Argonne		Argonne National Laboratory	NotSpec							7
222	DOE	Mar-94	Mar-95	Argonne		Argonne National Laboratory	NotSpec		50	25				7
223	DOE	Sep-94	Sep-94	Argonne		Argonne National Laboratory	NotSpec		198	99				7
224	DOE	Jun-94	Nov-94	Richland		Pacific Northwest Laboratory	NotSpec		26.5	13.25				7
225	DOE			Upton		Brookhaven National Laborat	NotSpec		3510	878.333	875	875		7
226	DOE			Upton		Brookhaven National Laborat	NotSpec		1054	180.667	175	175		7
227	DOE			Upton		Brookhaven National Laborat	NotSpec		24	4.667	2	2		7
228	DOE			Upton		Brookhaven National Laborat	NotSpec		1022	257	250	250		2
229	DOE			Upton		Brookhaven National Laborat	NotSpec		1169	342.667	693	693		3
230	DOE			Upton		Brookhaven National Laborat	NotSpec		311	155.5	151	151		7
231	DOE			Upton		Brookhaven National Laborat	NotSpec		1542	514	570	570		7
232	DOE	Oct-92		Upton		Brookhaven National Laborat	NotSpec		1635	545	598	598		7
233	DOE			Upton		Brookhaven National Laborat	NotSpec		100.3	100.3	100.3	100.3		7
234	DOE			Upton		Brookhaven National Laborat	NotSpec		1001	300.5	231	231		7
235	DOE		Sep-94	Upton		Brookhaven National Laborat	NotSpec		442	442	442	442		7
236	DOE	Oct-93		Upton		Brookhaven National Laborat	NotSpec		0					7
237	DOE	Jun-91	Sep-94	Upton		Brookhaven National Laborat	NotSpec		0	0				7
238	DOE		Dec-93	Upton		Brookhaven National Laborat	NotSpec		400	400				7
239	DOE	Dec-93	Sep-94	Upton		Brookhaven National Laborat	NotSpec		80.2	80.2	80.2	80.2		2
240	DOE		Sep-95	Upton		Brookhaven National Laborat	NotSpec		340	340	340	340		5
241	DOE		Mar-94	Upton		Brookhaven National Laborat	NotSpec		0					5
242	DOE	Jul-75	Sep-93	Oak Ridge		Oak Ridge National Laborato	NotSpec		283	283	283	283		7
243	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		843	205	20	20		7
244	DOE	Oct-76		Oak Ridge		Oak Ridge National Laborato	NotSpec		0					7
245	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		296	148	150	150		7
246	DOE	Oct-76		Oak Ridge		Oak Ridge National Laborato	NotSpec		21579	5010	5049	5049		7
247	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		4757	1543	1490	1490		7
248	DOE	Apr-88		Oak Ridge		Oak Ridge National Laborato	NotSpec		957	243.667	314	314		7
249	DOE	Dec-86		Oak Ridge		Oak Ridge National Laborato	NotSpec		1978	484.333	433	433		1
250	DOE	Jan-84		Oak Ridge		Oak Ridge National Laborato	NotSpec		7134	1761.333	1821	1821		1
251	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		15	15	15	15		6
252	DOE	Apr-85		Oak Ridge		Oak Ridge National Laborato	NotSpec		1960	441.667	540	540		7
253	DOE	Oct-90		Oak Ridge		Oak Ridge National Laborato	NotSpec		253	114	108	108		7
254	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		263	80	77	77		7
255	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		350	175	235	235		7
256	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		125	125	125	125		7
257	DOE	Oct-79		Oak Ridge		Oak Ridge National Laborato	NotSpec		849	190	238	238		1
258	DOE	Oct-79		Oak Ridge		Oak Ridge National Laborato	NotSpec		4330	1443.333	1245	1245		7
259	DOE	Oct-79		Oak Ridge		Oak Ridge National Laborato	NotSpec		6838	2279.333	2358	2358		7
260	DOE	Oct-90		Oak Ridge		Oak Ridge National Laborato	NotSpec		15586	3528.667	3336	3336		7



	Agency	Bureau	Program	Project	Award Number	Award Type
261	DOE	EnCon	Industry sector	Energy systems/Process heating & cooling/Heat	CEED007	E/C
262	DOE	EnCon	Industry sector	Energy systems/Process heating & cooling/Ther	CEED010	E/C
263	DOE	EnCon	Buildings Sector	Building systems/Best practices	CEWAS44	E/C
264	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	CEWBE31	E/C
265	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	CEWBE41	E/C
266	DOE	EnCon	Buildings Sector	Building systems/Best practices	CEWDO03	E/C
267	DOE	EnCon	Industry sector	Process efficiency/Materials & materials process	CEWPI71	E/C
268	DOE	MatSup	Materials support		DPW1222	E/C
269	DOE	EnCon	Buildings Sector	Building systems/Retrofit technologies	EEWAS13	E/C
270	DOE	EnSup	Environment, Safety & Health	Health physics and industrial hygiene R&D	EHW1842	E/C
271	DOE	EnSup	Basic energy sciences	Engineering & geosciences – Geosciences rese	ERKCES2	E/C
272	DOE	EnSup	Basic energy sciences	HPCC/Applied Mathematical Sciences – Adv cd	ERK CZ12	E/C
273	DOE	EnSup	Biological and environmental research	Environmental research – Terrestrial transport	ERKP508	E/C
274	DOE	EnSup	Technology transfer		ERKUCT1	E/C
275	DOE	EnSup	Biological and environmental research	Health effects – Biological research	ERW1828	E/C
276	DOE	EnCon	Buildings Sector	Building systems/Best practices	ETEC11001	E/C
277	DOE	FE	Petroleum, coal, and gas program	Coal – Advanced research & technology/Materia	FEAA028	E/C
278	DOE	EnSup	Basic energy sciences	Extramural awards	FG0293ER25158	E/G
279	DOE	EnSup	Basic energy sciences	Extramural awards	FG0393ER61600	E/G
280	DOE	EnSup	Small business innovative research		FG0594ER81890	E/G
281	DOE	EnSup	Nuclear energy	Space reactor power systems/SP-100 space rea	HANFORD109	E/C
282	DOE	MatSup	Nuclear safeguards and security	Technology and system development/Full scale	INEL4014	E/C
283	DOE	EnSup	Environment, Safety & Health	Health physics and industrial hygiene R&D	INEL4108	E/C
284	DOE	EnCon	Buildings Sector	Building systems/Best practices	INEL4131	E/C
285	DOE	WFO			L-1195B	E/C
286	DOE	WFO			L-1349	E/C
287	DOE	WFO			L-1418	E/C
288	DOE	WFO			L-4141	E/C
289	DOE	WFO			L-4544	E/C
290	DOE	WFO			L1330	E/C
291	DOE	WFO			L1334	E/C
292	DOE	CRADA			LANLLC9110020	E/CA
293	DOE	CRADA			LANLLC9210064	E/CA
294	DOE	EnCon	Buildings Sector	Building systems/Best practices	LBL4708	E/C
295	DOE	EnCon	Buildings Sector	Building systems/Commercial buildings	LBL4712	E/C
296	DOE	EnCon	Buildings Sector	Building systems/Retrofit technologies	LBL4720	E/C
297	DOE	EnCon	Buildings Sector	Building equipment/Appliances	LBL4722	E/C
298	DOE	EnCon	Buildings Sector	Building systems/Best practices	LBL4735	E/C
299	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	LBL4739	E/C
300	DOE	EnCon	Buildings Sector	Building systems/Retrofit technologies	LBL4742	E/C
301	DOE	EnCon	Buildings Sector	Building envelope/Indoor air quality	LBL4745	E/C
302	DOE	EnCon	Buildings Sector	Building systems/Commercial buildings	LBL4746	E/C
303	DOE	EnCon	Buildings Sector	Building envelope/Windows and glazings	LBL4747	E/C
304	DOE	EnCon	Buildings Sector	Building equipment/Lighting	LBL4748	E/C
305	DOE	EnCon	Buildings Sector	Building envelope/Windows and glazings	LBL4749	E/C
306	DOE	EnCon	Buildings Sector	Buildingsystems/Residential building	LBL4756	E/C
307	DOE	EnCon	Buildings Sector	Building envelope/Materials and structures	LBL4761	E/C
308	DOE	EnCon	Buildings Sector	Building systems/Best practices	LBL4778	E/C
309	DOE	EnCon	Buildings Sector	Building systems/Best practices	LBL4787	E/C
310	DOE	EnSup	Biological and environmental research	Health effects – Biological research	LBL4789	E/C
311	DOE	EnCon	Industry sector	Process efficiency/Materials & materials process	LBL4798	E/C
312	DOE	EnCon	Buildings Sector	Building equipment/Appliances	LBL4799	E/C
313	DOE	CRADA			LBLPBG90073	E/CA
314	DOE	CRADA			LBLPBG9115702	E/CA
315	DOE	CRADA			LBLPBG92023	E/CA
316	DOE	CRADA			LBLPBG92027	E/CA
317	DOE	CRADA			LBLPBG92028	E/CA
318	DOE	CRADA			LBLPBG92080	E/CA
319	NSF	Medical & Pr	VA Medical Center - (Palo Alto, CA)		83718	E/G
320	DOE	CRADA			LBLPBG93019	E/CA
321	DOE	CRADA			LBLPBG93040	E/CA
322	DOE	CRADA			LBLPBG93151	E/CA
323	DOE	EnCon	Buildings Sector	Building systems/Best practices	LLNL01EEW0014	E/C
324	DOE	EnSup	Nuclear energy	Space reactor power systems/SP-100 space rea	NEAF607	E/C
325	DOE	MatSup	Nuclear safeguards and security	Technology and system development/Science &	NEW0019	E/C

C&B R&D Report

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
261	DOE	Apr-82		Oak Ridge		Oak Ridge National Laborato	NotSpec		4753	819.333	610	610		7
262	DOE	Oct-89		Oak Ridge		Oak Ridge National Laborato	NotSpec		2126	511.667	507	507		7
263	DOE	Oct-93		Golden		National Renewable Energy I	NotSpec		1425	450	400	400		4
264	DOE	Oct-92		Golden		National Renewable Energy I	NotSpec		20840	6946.667	7040	7040		7
265	DOE	Oct-93		Golden		National Renewable Energy I	NotSpec		16270	5160	4920	4920		7
266	DOE	Oct-92		Golden		National Renewable Energy I	NotSpec		3300	1100	1100	1100		7
267	DOE	Jan-93		Golden		National Renewable Energy I	NotSpec		2843	710.75	350	350		7
268	DOE	Jan-92		Oak Ridge		Oak Ridge Institute for Scien	NotSpec		1757	280.5	315	315		4
269	DOE	Mar-91	Mar-94	Golden		National Renewable Energy I	NotSpec		112.5	112.5				6
270	DOE	Mar-91		Oak Ridge		Oak Ridge Institute for Scien	NotSpec		3638	757.667	882	882		3
271	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		14	14	14	14		7
272	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		4260	1420.5	1581	1581		7
273	DOE			Oak Ridge		Oak Ridge National Laborato	NotSpec		1179	367.5	300	300		7
274	DOE	Oct-93	Sep-94	Oak Ridge		Oak Ridge National Laborato	NotSpec		100	100	100	100		7
275	DOE	Jul-87		Oak Ridge		Oak Ridge Institute for Scien	NotSpec		727	180	182	182		7
276	DOE	Oct-90		Canoga Park		Energy Technology Engineer	NotSpec		107	35.667	50	50		7
277	DOE	Oct-79		Oak Ridge		Oak Ridge National Laborato	NotSpec		12018	4006	15	15		7
278	DOE	Apr-93	Apr-94	Albany	NY	NEW YORK STATE UNIV R	EdInst		700	700				7
279	DOE	May-93	Apr-96	Salt Lake City	UT	ROGERS & ASSOC ENG C	IndBus		164.145	52.771	52.214	52.214	0	7
280	DOE	Aug-94	Mar-97	Albuquerque	NM	THERMAL ELECTRIC DEVI	IndBus		884.999	74.999	74.999	74.999	0	7
281	DOE	Oct-83		Richland		Hanford Site	NotSpec		7202	1590	1375	1375		7
282	DOE	Jan-86		Idaho Falls		Idaho National Engineering L	NotSpec		3543.7	902.35	957.7	957.7		7
283	DOE	Aug-93		Idaho Falls		Idaho National Engineering L	NotSpec		775	187.5	185	185		3
284	DOE	Oct-90		Idaho Falls		Idaho National Engineering L	NotSpec		70	13.5	6	6		7
285	DOE			Livermore		Lawrence Livermore National	NotSpec		5275.8	479.9	479.9	479.9		7
286	DOE			Livermore		Lawrence Livermore National	NotSpec		1158	140.5	140.5	140.5		5
287	DOE			Livermore		Lawrence Livermore National	NotSpec		86.1	81.5	81.5	81.5		7
288	DOE			Livermore		Lawrence Livermore National	NotSpec		4150.8	1010.7	1010.7	1010.7		7
289	DOE			Livermore		Lawrence Livermore National	NotSpec		1997.2	0.9	0.9	0.9		7
290	DOE			Albuquerque		Sandia National Laboratories	NotSpec		458	26.2	26.2	26.2		7
291	DOE			Albuquerque		Sandia National Laboratories	NotSpec		1234	24	24	24		7
292	DOE	Jan-92	Jan-94	Los Alamos		Los Alamos National Laborat	NotSpec							7
293	DOE	Jan-93	Jan-95	Los Alamos		Los Alamos National Laborat	NotSpec							7
294	DOE	Oct-92		Berkeley		Lawrence Berkeley Laborator	NotSpec		1815	632.5	730	730		7
295	DOE	Jul-74		Berkeley		Lawrence Berkeley Laborator	NotSpec		462	152	150	150		7
296	DOE	Oct-84		Berkeley		Lawrence Berkeley Laborator	NotSpec		381	100.667	75	75		7
297	DOE	Jun-79		Berkeley		Lawrence Berkeley Laborator	NotSpec		11409	3749	3697	3697		7
298	DOE	Oct-86		Berkeley		Lawrence Berkeley Laborator	NotSpec		4605	1300	650	650		7
299	DOE	Apr-91		Berkeley		Lawrence Berkeley Laborator	NotSpec		409	101	100	100		7
300	DOE	May-77		Berkeley		Lawrence Berkeley Laborator	NotSpec		1285	308.333	225	225		7
301	DOE	May-77		Berkeley		Lawrence Berkeley Laborator	NotSpec		3600	1200	1200	1200		7
302	DOE	May-77		Berkeley		Lawrence Berkeley Laborator	NotSpec		3570	822	950	950		7
303	DOE	May-77		Berkeley		Lawrence Berkeley Laborator	NotSpec		9755.2	2326.733	2625	2625		7
304	DOE	Jul-76		Berkeley		Lawrence Berkeley Laborator	NotSpec		10717	2638	2650	2650		7
305	DOE	Oct-90		Berkeley		Lawrence Berkeley Laborator	NotSpec		2179	726.333	745	745		7
306	DOE	Jun-92		Berkeley		Lawrence Berkeley Laborator	NotSpec		253	66.667	50	50		7
307	DOE	Apr-91		Berkeley		Lawrence Berkeley Laborator	NotSpec		156	52	52	52		7
308	DOE	Oct-90		Berkeley		Lawrence Berkeley Laborator	NotSpec		3071	1009	995	995		7
309	DOE	Jan-88		Berkeley		Lawrence Berkeley Laborator	NotSpec		1225	302.667	300	300		7
310	DOE	Jul-76		Berkeley		Lawrence Berkeley Laborator	NotSpec		1704	426.333	399	399		7
311	DOE	Aug-91		Berkeley		Lawrence Berkeley Laborator	NotSpec		800	266.667	250	250		7
312	DOE	Jul-74		Berkeley		Lawrence Berkeley Laborator	NotSpec		321.2	107.067	107	107		7
313	DOE	Dec-92	Dec-93	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
314	DOE	Jun-93	Jun-94	Berkeley		Lawrence Berkeley Laborator	NotSpec		61.798	30.899				7
315	DOE	Dec-92	Dec-93	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
316	DOE	Dec-92	Dec-93	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
317	DOE	Dec-92	Dec-93	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
318	DOE	Dec-92	Feb-94	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
319	NSF	Oct-92	Sep-94	Palo Alto		VA Medical Center - (Palo Al	FedGov			7.697	0	0		7
320	DOE	Aug-93	Aug-94	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
321	DOE	Mar-94	Jun-95	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
322	DOE	Jun-93	Oct-93	Berkeley		Lawrence Berkeley Laborator	NotSpec							7
323	DOE	Oct-91		Livermore		Lawrence Livermore National	NotSpec		60	15	15	15		7
324	DOE	Oct-85		Oak Ridge		Oak Ridge National Laborato	NotSpec		1318	659	371	371		7
325	DOE			Livermore		Lawrence Livermore National	NotSpec		1600	533.333	600	600		7

	Agency	Bureau	Program	Project	Award Number	Award Type
326	DOE	CRADA			NREL92004	E/CA
327	DOE	CRADA			NREL92008	E/CA
328	DOE	EnSup	Environment, Safety & Health	Health physics and industrial hygiene R&D	ORISE101.5	E/C
329	DOE	WFO			ORNL16132	E/C
330	DOE	WFO			ORNL16367	E/C
331	DOE	CRADA			ORNL910054	E/CA
332	DOE	CRADA			ORNL910063	E/CA
333	DOE	CRADA			ORNL920116	E/CA
334	DOE	CRADA			ORNL920123	E/CA
335	DOE	CRADA			ORNL920134	E/CA
336	DOE	CRADA			ORNL930173	E/CA
337	DOE	CRADA			ORNL930191	E/CA
338	DOE	CRADA			ORNL930192	E/CA
339	DOE	CRADA			ORNL930196	E/CA
340	DOE	CRADA			ORNL930229	E/CA
341	DOE	CRADA			ORNL930234	E/CA
342	DOE	CRADA			ORNL930235	E/CA
343	DOE	CRADA			ORNL940263	E/CA
344	DOE	CRADA			ORNL940278	E/CA
345	DOE	EnSup	Fusion energy	Magnetic fusion energy – Confinement sys/Toka	P6009	E/C
346	DOE	EnSup	Fusion energy	Magnetic fusion energy – Development & technol	P6030	E/C
347	DOE	CRADA			PNL029	E/CA
348	DOE	CRADA			PNL036	E/CA
349	DOE	EnSup	Environment, Safety & Health	Health physics and industrial hygiene R&D	PNL1044	E/C
350	DOE	DERWM	Pollution prevention		PNL1111	E/C
351	DOE	DERWM	Pollution prevention		PNL1113	E/C
352	DOE	DERWM	Pollution prevention		PNL1114	E/C
353	DOE	EnSup	Technology transfer		PNL1129.5	E/C
354	DOE	LDRD			PNL1155	E/C
355	DOE	LDRD			PNL1177	E/C
356	DOE	LDRD			PNL1207	E/C
357	DOE	LDRD			PNL1240	E/C
358	DOE	LDRD			PNL1269	E/C
359	DOE	EnSup	Biological and environmental research	Environmental research – Terrestrial transport	PNL551	E/C
360	DOE	EnSup	Biological and environmental research	Environmental research – Terrestrial transport	PNL552	E/C
361	DOE	EnSup	Biological and environmental research	Environmental research – Terrestrial transport	PNL555	E/C
362	DOE	CRADA			PNL610	E/CA
363	DOE	EnCon	Buildings Sector	Building envelope/Windows and glazings	PNL639	E/C
364	DOE	MatSup	Nuclear safeguards and security	Technology and system development/Science &	PNL642	E/C
365	DOE	LDRD			PNL551	E/C
366	DOE	LDRD			PNL732	E/C
367	DOE	DERWM	Groundwater & soil cleanup		PNL795	E/C
368	DOE	DERWM	Groundwater & soil cleanup		PNL796	E/C
369	DOE	DERWM	Groundwater & soil cleanup		PNL804	E/C
370	DOE	DERWM	Waste retrieval & processing		PNL806	E/C
371	DOE	DERWM	Waste retrieval & processing		PNL807	E/C
372	DOE	DERWM	Waste retrieval & processing		PNL810	E/C
373	DOE	DERWM	Waste retrieval & processing		PNL810	E/C
374	DOE	DERWM	Waste retrieval & processing		PNL810	E/C
375	DOE	DERWM	Waste retrieval & processing		PNL822	E/C
376	DOE	DERWM	Groundwater & soil cleanup		PNL825	E/C
377	DOE	DERWM	Groundwater & soil cleanup		PNL830	E/C
378	DOE	EnCon	Buildings Sector	Building envelope/Windows and glazings	PNL854	E/C
379	DOE	EnCon	Buildings Sector	Building systems/Best practices	PNL855	E/C
380	DOE	EnCon	Industry sector	Process efficiency/Materials & materials process	PNL858	E/C
381	DOE	DERWM	Groundwater & soil cleanup		PNL869	E/C
382	DOE	DERWM	Other activities		RWW0009	E/C
383	DOE	LDRD			SNL1089	E/C
384	DOE	LDRD			SNL1121	E/C
385	DOE	DERWM	Groundwater & soil cleanup		SNL1385	E/C
386	DOE	EnCon	Industry sector	Process efficiency/Materials & materials process	SNL1387	E/C
387	DOE	EnSup	Nuclear energy	Light water reactors/Advanced light water reacto	SNL1544	E/C
388	DOE	DERWM	Other activities		SNL1562	E/C
389	DOE	DERWM	Groundwater & soil cleanup		SNL1630	E/C
390	DOE	DERWM	Groundwater & soil cleanup		SNL1632	E/C

## C&amp;B R&amp;D Report

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
326	DOE	Jan-92	Jan-94	Golden		National Renewable Energy	NotSpec							7
327	DOE	Aug-92	Aug-94	Golden		National Renewable Energy	NotSpec							7
328	DOE	Jan-92		Oak Ridge		Oak Ridge Institute for Scien	NotSpec	34	17					7
329	DOE	Jul-93	Aug-96	Oak Ridge		Oak Ridge National Laborato	NotSpec	290.6	72.65					7
330	DOE	Jul-93	Aug-96	Oak Ridge		Oak Ridge National Laborato	NotSpec	1190	500	500	500			7
331	DOE	Sep-93		Oak Ridge		Oak Ridge National Laborato	NotSpec							7
332	DOE	Feb-92	Oct-94	Oak Ridge		Oak Ridge National Laborato	NotSpec							6
333	DOE	Oct-92	Oct-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
334	DOE	Sep-93	Jul-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
335	DOE	Jun-93	Jun-94	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
336	DOE	Aug-93	Aug-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
337	DOE	Sep-93	Sep-96	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
338	DOE	Jan-94	Jul-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
339	DOE	Nov-93	Nov-94	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
340	DOE	Dec-93	Dec-94	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
341	DOE	Apr-94	Apr-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
342	DOE	Apr-94	Apr-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
343	DOE	May-94	Feb-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
344	DOE	Aug-94	Aug-95	Oak Ridge		Oak Ridge National Laborato	NotSpec							7
345	DOE	Oct-92		Princeton		Princeton Plasma Physics La	NotSpec	3824.1	3824.1					7
346	DOE	Oct-92		Princeton		Princeton Plasma Physics La	NotSpec	705.9	235.3	300.4	300.4			7
347	DOE	Jun-93		Richland		Pacific Northwest Laboratory	NotSpec							7
348	DOE	Jun-93		Richland		Pacific Northwest Laboratory	NotSpec							7
349	DOE	Oct-93		Richland		Pacific Northwest Laboratory	NotSpec	200	200					3
350	DOE	Sep-94	Sep-97	Richland		Pacific Northwest Laboratory	NotSpec	117	117	117	117			7
351	DOE	Mar-93	Mar-98	Richland		Pacific Northwest Laboratory	NotSpec	2234	744.667	812	812			7
352	DOE	Oct-93		Richland		Pacific Northwest Laboratory	NotSpec	3868	1289.333	506	506			7
353	DOE	Jun-93		Richland		Pacific Northwest Laboratory	NotSpec	50326	11163	9026	9026			7
354	DOE			Richland		Pacific Northwest Laboratory	NotSpec	466	155.333	221	221			7
355	DOE			Richland		Pacific Northwest Laboratory	NotSpec	361	105.5	86	86			7
356	DOE			Richland		Pacific Northwest Laboratory	NotSpec	561.8	137.267	229	229			7
357	DOE			Richland		Pacific Northwest Laboratory	NotSpec	90	45	45	45			7
358	DOE			Richland		Pacific Northwest Laboratory	NotSpec	813.4	203.35	85	85			7
359	DOE	Oct-88		Richland		Pacific Northwest Laboratory	NotSpec	1315	328.75	400	400			7
360	DOE	Oct-88	Feb-94	Richland		Pacific Northwest Laboratory	NotSpec	640	213.333	200	200			7
361	DOE	Apr-90		Richland		Pacific Northwest Laboratory	NotSpec	1147	286.75	320	320			7
362	DOE	Feb-93	Sep-95	Richland		Pacific Northwest Laboratory	NotSpec							7
363	DOE	Mar-93	Dec-93	Richland		Pacific Northwest Laboratory	NotSpec	374	187					7
364	DOE	Oct-92		Richland		Pacific Northwest Laboratory	NotSpec	2200	2200					7
365	DOE	Oct-92	Sep-95	Richland		Pacific Northwest Laboratory	NotSpec	170	42.5	50	50			7
366	DOE	Oct-92	Sep-95	Richland		Pacific Northwest Laboratory	NotSpec	584	194.667	130	130			7
367	DOE			Richland		Pacific Northwest Laboratory	NotSpec	5948	1004.5	1460	1460			7
368	DOE	Apr-93		Richland		Pacific Northwest Laboratory	NotSpec	2395	598.75	785	785			7
369	DOE	Oct-92		Richland		Pacific Northwest Laboratory	NotSpec	3032	379.75	546	546			8
370	DOE			Richland		Pacific Northwest Laboratory	NotSpec	11625	2706.25	4100	4100			7
371	DOE			Richland		Pacific Northwest Laboratory	NotSpec	16074	2214.25	3080	3080			7
372	DOE			Richland		Pacific Northwest Laboratory	NotSpec	3195	611.667	630	630			7
373	DOE	Oct-92	Sep-94	Richland		Pacific Northwest Laboratory	NotSpec	190	190					8
374	DOE	Oct-92		Richland		Pacific Northwest Laboratory	NotSpec	1925	483.333	600	600			7
375	DOE	Oct-92		Richland		Pacific Northwest Laboratory	NotSpec	2530	843.333	900	900			7
376	DOE	Oct-92		Richland		Pacific Northwest Laboratory	NotSpec	900	450	625	625			7
377	DOE			Richland		Pacific Northwest Laboratory	NotSpec	1306	326.5	404	404			7
378	DOE	Mar-93	Mar-94	Richland		Pacific Northwest Laboratory	NotSpec	1850	550	500	500			7
379	DOE	Mar-84		Richland		Pacific Northwest Laboratory	NotSpec	9151	2325.5	1651	1651			7
380	DOE	Apr-92		Richland		Pacific Northwest Laboratory	NotSpec	1659	414.75	807	807			7
381	DOE			Richland		Pacific Northwest Laboratory	NotSpec	190	190	190	190			7
382	DOE			Livermore		Lawrence Livermore National	NotSpec	450	150	150	150			7
383	DOE			Albuquerque		Sandia National Laboratories	NotSpec	734	367	314	314			7
384	DOE			Albuquerque		Sandia National Laboratories	NotSpec	424	212	212	212			7
385	DOE	Mar-89	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec	40	40	40	40			7
386	DOE	Jun-89		Albuquerque		Sandia National Laboratories	NotSpec	661	661	661	661			7
387	DOE	Aug-81	Sep-99	Albuquerque		Sandia National Laboratories	NotSpec	340	340	340	340			7
388	DOE	Jul-91	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec	24	24	24	24			7
389	DOE	Aug-92	Sep-96	Albuquerque		Sandia National Laboratories	NotSpec	117	117	117	117			7
390	DOE	Aug-92	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec	514	514	514	514			7

	Agency	Bureau	Program	Project	Award Number	Award Type
391	DOE	DERWM	Groundwater & soil cleanup		SNL1635	E/C
392	DOE	DERWM	Other activities		SNL1636	E/C
393	DOE	DERWM	Groundwater & soil cleanup		SNL1638	E/C
394	DOE	EnCon	Buildings Sector	Building systems/Best practices	SNL1697	E/C
395	DOE	DERWM	Groundwater & soil cleanup		SNL1712	E/C
396	DOE	EnCon	Buildings Sector	Building systems/Best practices	SNL1762	E/C
397	DOE	LDRD			SNL494	E/C
398	DOE	LDRD			SNL518	E/C
399	DOE	CRADA			SNLSC9401229	E/CA
400	DOE	CRADA			SRSCR93003	E/CA
401	DOE	CRADA			SRSCR93010	E/CA
402	DOE	DERWM	Groundwater & soil cleanup		SRTC8016	E/C
403	DOE	DERWM	Groundwater & soil cleanup		SRTC8020	E/C
404	DOE	DERWM	Groundwater & soil cleanup		SRTC8021	E/C
405	DOE	DERWM	Groundwater & soil cleanup		SRTC8022	E/C
406	DOE	DERWM	Groundwater & soil cleanup		SRTC8024	E/C
407	DOE	DERWM	Groundwater & soil cleanup		SRTC8026	E/C
408	DOE	DERWM	Groundwater & soil cleanup		SRTC8046	E/C
409	DOE	DERWM	Groundwater & soil cleanup		SRTC8052	E/C
410	DOE	DERWM	Groundwater & soil cleanup		SRTC8057	E/C
411	DOE	DERWM	Groundwater & soil cleanup		SRTC8059	E/C
412	DOE	DERWM	Groundwater & soil cleanup		SRTC8060	E/C
413	DOI	MMS			CTI090001N1155	VIP
414	DOI	BR			CTIN0138	VIP
415	DOJ	OJP			91JCX0012	E/G
416	DOJ	OJP			93JCX0053	E/G
417	DOT	FHA	Highway research, development & technolog	Safety	CTI080017N0497	VIP
418	DOT	FHA	Highway research, development & technolog	Materials	CTI080018N0497	VIP
419	DOT	FHA	Highway research, development & technolog	Pavements	CTI080019N0497	VIP
420	DOT	FHA	Highway research, development & technolog	Structures	CTI080020N0497	VIP
421	DOT	FHA	Highway research, development & technolog	Environment	CTI080021N0497	VIP
422	DOT	FHA	Highway research, development & technolog	Right-of-Way	CTI080022N0497	VIP
423	DOT	FHA	Highway research, development & technolog	Policy	CTI080023N0497	VIP
424	DOT	FHA	Highway research, development & technolog	Planning	CTI080024N0497	VIP
425	DOT	FHA	Highway research, development & technolog	Motor carrier	CTI080025N0497	VIP
426	DVA	M&PR	VA Medical Center - (San Antonio, TX)		77782	E/C
427	DVA	M&PR	VA Medical Center - (Decatur, GA)		82943	VIP
428	DVA	M&PR	VA Medical Center - (Decatur, GA)		90814	VIP
429	EPA	R&D	Multimedia research	Lab and field expenses	CTIN0433	VIP
430	EPA	R&D	Air quality		R817083017	E/G
431	EPA	R&D	Air quality		R817083018	E/G
432	EPA	R&D	Air quality		R81708301A	E/G
433	EPA	R&D	Air quality		R81708301C	E/G
434	EPA	R&D	Air quality		R81708301D	E/G
435	EPA	R&D	Air quality		R820299010	E/G
436	EPA	R&D	Air quality		R820299012	E/G
437	EPA	R&D	Air quality		R820299013	E/G
438	EPA	R&D	Multimedia research	Research & development	R820755010	E/G
439	EPA	R&D	Multimedia research	Research & development	R820755012	E/G
440	EPA	R&D	Air quality		R822356011	E/G
441	EPA	R&D	Air quality		R822870010	E/G
442	EPA	R&D	Air quality		R822870011	E/G
443	EPA	R&D	Air quality		R822870012	E/G
444	EPA	R&D	Multimedia research	Research & development	R822957010	E/G
445	EPA	R&D	Air quality		R823632010	E/G
446	EPA	R&D	Air quality		R823633010	E/G
447	EPA	R&D	Air quality		S992096010	E/G
448	EPA	R&D	Air quality		S992100010	E/G
449	EPA	R&D	Air quality		X995615010	E/G
450	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000CCR310097	Extramur
451	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000K1OH00087	Extramur
452	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000K1OH00107	Extramur
453	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000K1OH00110	Extramur
454	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000K1OH02103	Extramur
455	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH00835	Extramur

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
391	DOE	Nov-92	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec		196	196	196	196		7
392	DOE	Aug-93	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec		256	256	256	256		7
393	DOE	Sep-93	Sep-00	Albuquerque		Sandia National Laboratories	NotSpec		205	205	205	205		7
394	DOE	Jul-94	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec		16	16	16	16		7
395	DOE	Jan-93		Albuquerque		Sandia National Laboratories	NotSpec		560	560	560	560		7
396	DOE	Aug-94	Sep-95	Albuquerque		Sandia National Laboratories	NotSpec		0	0				7
397	DOE	Oct-92		Albuquerque		Sandia National Laboratories	NotSpec		1064	252	212	212		7
398	DOE	Oct-91		Albuquerque		Sandia National Laboratories	NotSpec		1208	402.667	400	400		8
399	DOE	Sep-94	Sep-96	Albuquerque		Sandia National Laboratories	NotSpec							7
400	DOE	Feb-94	Feb-95	Aiken		Savannah River Technology	NotSpec							7
401	DOE	Jan-94	Oct-94	Aiken		Savannah River Technology	NotSpec							7
402	DOE			Aiken		Savannah River Technology	NotSpec		1000	333.333	100	100		7
403	DOE			Aiken		Savannah River Technology	NotSpec		2425	808.333	800	800		7
404	DOE			Aiken		Savannah River Technology	NotSpec		2870	956.667	720	720		7
405	DOE			Aiken		Savannah River Technology	NotSpec		2670	667.5	700	700		7
406	DOE			Aiken		Savannah River Technology	NotSpec		3920	730	500	500		7
407	DOE			Aiken		Savannah River Technology	NotSpec		1175	391.667	350	350		7
408	DOE	Oct-92		Aiken		Savannah River Technology	NotSpec		975	487.5	125	125		7
409	DOE	Oct-92		Aiken		Savannah River Technology	NotSpec		3575	558.333	550	550		8
410	DOE	Oct-91		Aiken		Savannah River Technology	NotSpec		1328	442.667	100	100		7
411	DOE	Oct-91		Aiken		Savannah River Technology	NotSpec		1875	937.5	720	720		7
412	DOE	Oct-92		Aiken		Savannah River Technology	NotSpec		1400	700	500	500		7
413	DOI	Oct-92	Sep-94			Risk Reduction Engineering	NotSpec							7
414	DOI	Oct-92	Sep-94			Engineering and Research	NotSpec							7
415	DOJ	Sep-91	Nov-93	Annapolis	MD	KNAPPEL, CAROLE	PrivIndiv		246.721					6
416	DOJ	Nov-93	Apr-95	Capitola	CA	KNAPPEL, CAROLE	PrivIndiv		109					6
417	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
418	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
419	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
420	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
421	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
422	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
423	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
424	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
425	DOT	Oct-92	Sep-94			Turner-Fairbank Highway Re	NotSpec							7
426	DVA	Oct-92	Sep-94	San Antonio		VA Medical Center - (San An	FedGov		4.184	3.379	3.379			7
427	DVA	Oct-92	Sep-94	Decatur		VA Medical Center - (Decatu	FedGov		57.961	0	0			5
428	DVA	Oct-92	Sep-94	Decatur		VA Medical Center - (Decatu	FedGov		62.279	72.981	72.981			5
429	EPA	Oct-92	Sep-94			Risk Reduction Engineering	NotSpec							7
430	EPA	Aug-91	Aug-94	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		416.805					7
431	EPA	Aug-91	Aug-94	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		603.295					7
432	EPA	Aug-91	Aug-94	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		68.833	70.237	68.833	1.404		7
433	EPA	Aug-91	Aug-95	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		94.011	95.93	94.011	1.919		7
434	EPA	Aug-91	Aug-95	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		61.5	62.756	61.5	1.256		7
435	EPA	Oct-92	Oct-95	Urbana	IL	UNIVERSITY OF ILLINOIS	EdInst		91.317					7
436	EPA	Oct-92	Oct-94	Champaign	IL	UNIVERSITY OF ILLINOIS	EdInst		140	151.39	140	11.39		7
437	EPA	Oct-92	Oct-94	Champaign	IL	UNIVERSITY OF ILLINOIS	EdInst		20	20.993	20	0.993		7
438	EPA	Oct-92	Mar-94	Ames	IA	IOWA STATE UNIVERSITY	StalocGov		500					7
439	EPA	Oct-92	Mar-94	Ames	IA	IOWA STATE UNIVERSITY	StalocGov		228					7
440	EPA	Oct-93	Sep-96	College Park	MD	UNIV. OF MARYLAND AT C	EdInst		133.94	140.99	133.94	7.05		7
441	EPA	Aug-94	Jul-96	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		257.992	263.26	257.99	5.266		7
442	EPA	Aug-94	Jul-96	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd		35	35.714	35	0.714		7
443	EPA	Aug-94	Jul-96	Durham	NC	RESEARCH TRIANGLE INS	NonprofNonEd							7
444	EPA	Oct-94	Oct-96	Columbus	OH	BATTELLE MEMORIAL INS	Nonpr	BATTELLE MEM	74.996	78.944	74.996	3.948		7
445	EPA	Oct-94	Sep-96	Minneapolis	MN	UNIVERSITY OF MINNESO	EdInst		10	15.657	10	5.657		7
446	EPA	Oct-94	Sep-95	Atlanta	GA	ASHRAEI	NonprofNonEd		40	81.9	40	41.9		7
447	EPA	Sep-94	Aug-95	Summit	NJ	N.J. GRP. AGNST. SMOKIN	NonprofNonEd		16.892	17.892	16.892	1		7
448	EPA	Oct-94	Sep-95	Hackensack	NJ	AMERICAN CANCER SOCI	NonprofNonEd		6.585	10.985	6.585	4.4		7
449	EPA	Sep-94	Aug-95	Springfield	IL	ILLINOIS DEPT OF PUBLIC	StalocGov		10	50.015	10	40.02		7
450	HHS	Sep-93	Sep-94	Solomons	MD	RAMAZZINI INST FOR OCC	IndBus		49.989					7
451	HHS	May-93	May-94	Baltimore	MD	JOHNS HOPKINS UNIVER	PriEdInst		54					7
452	HHS	Sep-92	Aug-94	Madison	WI	UNIVERSITY OF WISCONS	EdInst		53.692					7
453	HHS	Sep-92	Sep-94	Cambridge	MA	HARVARD UNIVERSITY PF	PriEdInst		54					7
454	HHS	Apr-93	Jun-94	Chapel Hill	NC	UNIVERSITY OF NORTH C	EdInst		53.936					7
455	HHS	Sep-92	Aug-94	New Orleans	LA	LOUISIANA STATE UNIVER	EdInst		86.599					7

	Agency	Bureau	Program	Project	Award Number	Award Type
456	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02571	Extramur
457	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02664	Extramur
458	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02741	Extramur
459	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02758	Extramur
460	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02767	Extramur
461	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02772	Extramur
462	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02804	Extramur
463	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02858	Extramur
464	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02872	Extramur
465	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02885	Extramur
466	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02922	Extramur
467	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02948	Extramur
468	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH02967	Extramur
469	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH03021	Extramur
470	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH03078	Extramur
471	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH03154	Extramur
472	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH02931	Extramur
473	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH02938	Extramur
474	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH02966	Extramur
475	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH02972	Extramur
476	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03000	Extramur
477	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03039	Extramur
478	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03061	Extramur
479	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03099	Extramur
480	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03102	Extramur
481	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R3OH03103	Extramur
482	HHS	CDCP	Natl Institute for Occupational Safety & Health		000000R1OH00106	Extramur
483	HHS	NIH	National Center for Research Resources	Comparative medicine (extramural, includes train	G20RR08777	E/G
484	HHS	NIH	National Center for Research Resources	Comparative medicine (extramural, includes train	G20RR08792	E/G
485	HHS	NIH	National Institute of Environmental Health S	Superfund research program - funds transferred	P42ES04699	E/G
486	HHS	NIH	National Institute of Environmental Health S	Superfund research program - funds transferred	P42ES04917	E/G
487	HHS	NIH	National Institute of Environmental Health S	Superfund research program - funds transferred	P42ES04940	E/G
488	HHS	NIH	National Institute of Environmental Health S	Superfund research program - funds transferred	P42ES05946	E/G
489	HHS	NIH	National Institute of Environmental Health S	Superfund research program - funds transferred	P42ES05949	E/G
490	HHS	NIH	National Institute of Environmental Health S	Biometry & risk estimation (extramural, includes	R01ES05410	E/G
491	HHS	NIH	National Institute on Aging	Aging (extramural, includes training)	R43AG12343	E/G
492	HHS	NIH	National Institute of Environmental Health S	Applied toxicological research & testing (extram	R43ES05898	E/G
493	HHS	NIH	National Institute on Aging	Aging (extramural, includes training)	R44AG08903	E/G
494	HHS	NIH	National Institute of Environmental Health S	Applied toxicological research & testing (extram	U45ES06167	E/G
495	NASA	SAT	Small Business Innovative Research (SBR)		NAS13603	E/C
496	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8657142	E/G
497	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	8657642	E/G
498	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	8657999	E/G
499	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8658102	E/G
500	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	8821163	E/CA
501	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	8821542	E/CA
502	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	8857002	E/G
503	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	8857080	E/G
504	NSF	ENG	Bioengineering & environmental systems (B	Bioengineering & environmental systems - Other	8857500	E/G
505	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8857749	E/G
506	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	8858549	E/G
507	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	8912074	E/G
508	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	8913129	E/G
509	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	8914008	E/G
510	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8921586	E/G
511	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	8922867	E/G
512	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	8922869	E/G
513	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	8943455	E/CA
514	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8957131	E/G
515	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	8957183	E/G
516	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	8957425	E/G
517	NSF	ENG	Design, manufacture & industrial innovation	Engineering Design	8957464	E/G
518	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	8957853	E/G
519	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	8958316	E/G
520	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	8958402	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
456	HHS	Sep-92	Sep-94	New York	NY	CUNY, RESEARCH FOUND	StaLocGov			112.483				7
457	HHS	Feb-92	Jan-94	New Orleans	LA	TULANE UNIVERSITY OF L	PriEdInst			104.868				7
458	HHS	Sep-93	Aug-94	Lowell	MA	UNIVERSITY OF LOWELL	EdInst			48.493				7
459	HHS	May-92	Apr-94	New York	NY	CORNELL UNIVERSITY, M	PriEdInst			147.892				7
460	HHS	May-92	Apr-94	Boston	MA	BOSTON UNIVERSITY	PriEdInst			181.294				7
461	HHS	Sep-92	Aug-94	Rochester	NY	UNIVERSITY OF ROCHEST	PriEdInst			185.286				7
462	HHS	Oct-91	Nov-93	Chicago	IL	UNIVERSITY OF ILLINOIS	EdInst			52.832				7
463	HHS	Apr-92	Jun-94	Chapel Hill	NC	UNIVERSITY OF NORTH C	EdInst			61.022				7
464	HHS	Sep-92	Sep-94	Los Angeles	CA	UNIVERSITY OF CALIFORNI	EdInst			187.726				7
465	HHS	Aug-92	Jul-94	New York	NY	COLUMBIA UNIVERSITY, S	PriEdInst			252.346				7
466	HHS	Sep-92	Sep-94	Albuquerque	NM	LOVELACE BIOMEDICAL &	NonprofNonEd			178.573				7
467	HHS	Apr-92	Aug-94	Cincinnati	OH	UNIVERSITY OF CINCINNA	EdInst			143.525				7
468	HHS	May-92	Apr-94	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	EdInst			94.533				7
469	HHS	Sep-93	Sep-94	State College	PA	PENNSYLVANIA STATE UN	EdInst			114.33				7
470	HHS	Sep-93	Sep-94	Atlanta	GA	EMORY UNIVERSITY	PriEdInst			136.688				7
471	HHS	Sep-93	Sep-94	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	EdInst			36.92				7
472	HHS	Oct-91	Dec-93	New York	NY	COLUMBIA UNIVERSITY, S	PriEdInst			23.885				7
473	HHS	Dec-92	Nov-93	Minneapolis	MN	UNIVERSITY OF MINNESO	EdInst			12.814				7
474	HHS	Jan-92	Mar-94	Seattle	WA	UNIVERSITY OF WASHING	EdInst			22.604				7
475	HHS	Aug-92	Jul-94	Cincinnati	OH	UNIVERSITY OF CINCINNA	EdInst			11.965				7
476	HHS	Sep-92	Sep-94	Davis	CA	UNIVERSITY OF CALIFORNI	EdInst			17.835				7
477	HHS	Sep-92	Sep-94	New York	NY	NEW YORK UNIVERSITY N	PriEdInst	(NEW YORK UNI		25.298				7
478	HHS	Jun-93	May-94	Little Rock	AR	UNIVERSITY OF ARKANSA	StaLocGov			34.64				7
479	HHS	Sep-93	Sep-94	Seattle	WA	MEDICAL CONSULTANTS	IndBus			49.225				7
480	HHS	Sep-93	Mar-94	Berkeley	CA	BERKELEY MICROINSTRU	IndBus			49.975				7
481	HHS	Sep-93	Mar-94	Springfield	VA	MICROSENSOR SYSTEMS	IndBus			49.616				7
482	HHS	Aug-92	Jun-94	Cambridge	MA	HARVARD UNIVERSITY PR	PriEdInst			54				7
483	HHS	Sep-93	Aug-94	Detroit	MI	WAYNE STATE UNIVERSIT	EdInst			470.3				7
484	HHS	Sep-93	Sep-94	New York	NY	CORNELL UNIVERSITY, M	PriEdInst			612.659				7
485	HHS	Jan-92	Mar-96	Davis	CA	UNIVERSITY OF CALIFORNI	EdInst			1429.066	1762.2	1762.2	0	7
486	HHS	Apr-92	Mar-96	College Station	TX	TEXAS A & M UNIVERSIT	StaLocGov			668.516	730.9	730.9	0	7
487	HHS	Apr-92	Mar-95	Tucson	AZ	UNIVERSITY OF ARIZONA	EdInst			1816.005	1830.5	1830.5	0	7
488	HHS	Apr-92	Mar-95	New Orleans	LA	TULANE UNIVERSITY OF L	PriEdInst			1764.906	1492.3	1492.3	0	7
489	HHS	Apr-92	Mar-96	Fort Collins	CO	COLORADO STATE UNIVE	EdInst			783.071	877.21	877.21	0	7
490	HHS	Sep-92	Aug-95	New Haven	CT	JOHN B PIERCE FOUNDA	NonprofNonEd			734.639	829.13	829.13	0	7
491	HHS	May-94	Nov-94	Wellesley (Town	MA	HEARTHSTONE ALZHEIME	IndBus			53.5	53.5	53.5	0	5
492	HHS	Jun-94	Nov-94	Bedford (Town	MA	NITON CORPORATION	IndBus			67.192	67.192	67.192	0	7
493	HHS	Feb-92	Jan-94	Bowie	MD	BONNIE WALKER & ASSO	IndBus			250				8
494	HHS	Sep-93	Aug-94	Washington	DC	INTERNATIONAL ASSOCIA	Oth			135				5
495	NASA	Jan-94	Jul-94	Auburn	CA	NO PERFORMER INFO AV	NotSpec		69.95	70	70	70		7
496	NSF	Jul-87	Aug-94	West Lafayette	IN	PURDUE UNIVERSITY	EdInst		312	37.5				8
497	NSF	Jul-87	Dec-93	Seattle	WA	U OF WASHINGTON	EdInst		231.038	34.845				7
498	NSF	Sep-87	Oct-94	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		271.6	34.1				7
499	NSF	Jul-87	Dec-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		312.5	62.5				7
500	NSF	Jun-89	May-95	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		1270.5	280.308	25	25	0	7
501	NSF	Jun-89	May-95	Fort Collins	CO	COLORADO STATE UNIVE	EdInst		1264.84	280.297	25	25	0	8
502	NSF	Sep-88	Feb-94	Ann Arbor	MI	NO PERFORMER INFO AV	NotSpec		129.5	25				7
503	NSF	Sep-88	Feb-94	Buffalo	NY	SUNY BUFFALO	EdInst		312	62.5				7
504	NSF	Sep-88	Aug-94	Ann Arbor	MI	NO PERFORMER INFO AV	NotSpec		304.898	62.5				7
505	NSF	Oct-88	May-95	Cambridge	MA	MIT	PriEdInst		250	62.5	62.5	62.5	0	7
506	NSF	Sep-88	Feb-94	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		274.5	50				7
507	NSF	Oct-89	Sep-94	Davis	CA	U OF CAL DAVIS	EdInst		543.549	217.601	88.201	88.201	0	7
508	NSF	Mar-90	Nov-94	Worcester	MA	WORCESTER POLYTECH	PriEdInst		77.025	23.106				7
509	NSF	Jun-90	Nov-94	Boulder	CO	U OF COLORADO BOULDE	EdInst		242.236	81.361				7
510	NSF	Nov-90	Oct-94	Madison	WI	U OF WISCONSIN MADISC	EdInst		150	80				7
511	NSF	Nov-89	Apr-94	Gainesville	FL	U OF FLORIDA	EdInst		102.389	27.367				7
512	NSF	Feb-90	Jul-94	Princeton	NJ	PRINCETON UNIVERSITY	PriEdInst		188.573	40.398				7
513	NSF	May-89	Apr-98	Bethlehem	PA	LEHIGH UNIVERSITY	PriEdInst		17975.1	3497.38	2750	2750	0	7
514	NSF	Jul-89	Jun-94	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		250	41.667	22.5	22.5	0	7
515	NSF	Jul-89	Jun-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		212	62.5	62.5	62.5	0	7
516	NSF	Aug-89	Jul-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		146.5	47.5				7
517	NSF	Sep-89	Jan-95	Cambridge	MA	MIT	PriEdInst		249.5	62.5				6
518	NSF	Aug-89	Jan-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		221.559	67.03				7
519	NSF	Oct-89	Mar-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		244	62.5	25	25	0	6
520	NSF	Jul-89	Dec-94	Boulder	CO	U OF COLORADO BOULDE	EdInst		212	57.5	37.5	37.5	0	7



	Agency	Bureau	Program	Project	Award Number	Award Type
521	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9000378	E/G
522	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9000379	E/G
523	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9000390	E/G
524	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9001494	E/G
525	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9002513	E/G
526	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9002571	E/G
527	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9006781	E/G
528	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9011065	E/G
529	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9011671	E/G
530	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9011672	E/G
531	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9011674	E/G
532	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9011676	E/G
533	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9013334	E/G
534	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9014808	E/G
535	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9015272	E/G
536	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9015291	E/G
537	NSF	CSE	Information, robotics & intelligent systems (	Information Technology & Organizations	9015441	E/G
538	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9015502	E/G
539	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9015542	E/G
540	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9015850	E/G
541	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9015912	E/G
542	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9015978	E/G
543	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9016459	E/G
544	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016509	E/G
545	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016714	E/G
546	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016828	E/G
547	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016863	E/G
548	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016867	E/G
549	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016873	E/G
550	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9016875	E/G
551	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9016880	E/G
552	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9017149	E/G
553	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9017771	E/G
554	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9018519	E/G
555	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9018572	E/G
556	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9018572	E/G
557	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9018572	E/G
558	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9021066	E/G
559	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9021995	E/G
560	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9022667	E/G
561	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9022714	E/G
562	NSF	ENG	Chemical & transport systems (CTS)	Process & Reaction Engineering	9023240	E/G
563	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9024976	E/G
564	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9057052	E/G
565	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9057298	E/G
566	NSF	ENG	Chemical & transport systems (CTS)	Combustion & Thermal Plasmas	9057963	E/G
567	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9058005	E/G
568	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9058092	E/G
569	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9058146	E/G
570	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9058304	E/G
571	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9058316	E/G
572	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9058545	E/G
573	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9096274	E/G
574	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9100627	E/G
575	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase II	9101585	E/G
576	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9102430	E/G
577	NSF	ENG	Design, manufacture & industrial innovation	Production Systems	9102993	E/G
578	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9105072	E/G
579	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9105194	E/G
580	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9106202	E/G
581	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9106390	E/G
582	NSF	SBE	International cooperative scientific activities	International activities - Other	9106732	E/G
583	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9108064	E/G
584	NSF	EHR	Systemic reform/EPSCOR (OSR)		9108774	E/G
585	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9109024	E/G

## C&amp;B R&amp;D Report

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
521	NSF	Dec-89	Nov-93	Cambridge	MA	MIT	PriEdInst		223.376	39.872				7
522	NSF	Dec-89	Nov-94	Boulder	CO	U OF COLORADO BOULDE	EdInst		235.887	64.677				7
523	NSF	Dec-89	Apr-94	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		255.573	80.973				7
524	NSF	Apr-90	Mar-94	Rolla	MO	U OF MISSOURI ROLLA	EdInst		214.999	5.25				7
525	NSF	Nov-90	Oct-93	Urbana	IL	U OF ILLINOIS URBANA	EdInst		128.5	52.432				7
526	NSF	Dec-90	Nov-93	Milwaukee	WI	MARQUETTE UNIVERSITY	PriEdInst		107.626	5				7
527	NSF	Nov-90	Oct-93	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		100.169	10				7
528	NSF	Jun-90	Nov-94	Boulder	CO	ATKINSON-NOLAND ASSO	IndBus		171.443	58.479				7
529	NSF	May-90	Apr-94	Los Angeles	CA	NO PERFORMER INFO AV	NotSpec		100	20				7
530	NSF	May-90	Oct-93	Los Angeles	CA	U OF CAL LOS ANGELES	EdInst		158.477	59.999				7
531	NSF	May-90	Oct-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		227	90				7
532	NSF	May-90	Oct-93	Seattle	WA	U OF WASHINGTON	EdInst		147	30				7
533	NSF	Jan-91	Dec-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		1380.66	470.166				3
534	NSF	Aug-91	Jan-96	Southfield	MI	LAWRENCE TECHNICAL U	PriEdInst		117.02	22.617	8.9	8.9	0	7
535	NSF	Jan-91	Dec-94	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		271.881	177.635				7
536	NSF	Jun-90	May-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		574.143	50				7
537	NSF	Sep-90	Aug-94	Boulder	CO	U OF COLORADO BOULDE	EdInst		745	290				6
538	NSF	Dec-90	Nov-93	Washington	DC	CATHOLIC UNIVERSITY	PriEdInst		120.238	42				7
539	NSF	Jun-91	May-94	Cambridge	MA	MIT	PriEdInst		100	50				7
540	NSF	Jan-91	Dec-94	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		246.882	27.965	3.186	3.186	0	7
541	NSF	May-91	Apr-94	Knoxville	TN	U OF TENNESSEE KNOXV	EdInst		110	110				7
542	NSF	Jun-91	Nov-93	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		100.717	52.534				7
543	NSF	Aug-91	Jan-95	Morgantown	WV	WV UNIV RESEARCH COR	EdInst		210.313	110.48	114.88	114.88	0	7
544	NSF	Sep-90	Feb-94	Urbana	IL	U OF ILLINOIS URBANA	EdInst		191.999	64				7
545	NSF	Oct-90	Sep-94	Seattle	WA	U OF WASHINGTON	EdInst		300	120				7
546	NSF	Aug-90	Jan-94	Austin	TX	U OF TEXAS AUSTIN	EdInst		243.3	58.65				7
547	NSF	Sep-90	Aug-94	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		290.491	28.545	13.789	13.789	0	7
548	NSF	Oct-90	Jun-94	Los Angeles	CA	ENGLEKIRK&SABOL CONS	IndBus		16.945	11.896				7
549	NSF	Sep-90	Feb-95	San Francisco	CA	H J DEGENKOLB ASSOCS	IndBus		34.722	11.74				7
550	NSF	Sep-90	Feb-94	San Francisco	CA	SOH ASSOCIATES	IndBus		48	16				7
551	NSF	Aug-90	Jul-94	Troy	NY	RENSSELAER POLYTECH	PriEdInst		274.449	54.388				7
552	NSF	Jun-91	May-95	Boulder	CO	U OF COLORADO BOULDE	EdInst		128.862	44.999	67.663	67.663	0	7
553	NSF	Mar-91	Feb-94	Ithaca	NY	CORNELL UNIVERSITY EN	PriEdInst		272.974	147.002				7
554	NSF	Feb-91	Dec-93	Mayaguez	PR	U OF PUERTO RICO MAYA	EdInst		170.258	26.559				7
555	NSF	Nov-90	Mar-94	Piscataway (To	NJ	NO PERFORMER INFO AV	NotSpec		207.818	92.023				7
556	NSF	Nov-90	Mar-94	Piscataway (To	NJ	NO PERFORMER INFO AV	NotSpec		207.818	92.023				7
557	NSF	Nov-90	Mar-94	Piscataway (To	NJ	NO PERFORMER INFO AV	NotSpec		207.818	92.023				7
558	NSF	Mar-91	Aug-94	Lawrence	KS	U OF KANSAS CTR FOR R	EdInst		183.503	73.547				7
559	NSF	Jun-91	Nov-93	State College	PA	PA ST U UNIVERSITY PAR	EdInst		149.788	69.261				7
560	NSF	Aug-91	Jan-95	Tucson	AZ	UNIVERSITY OF ARIZONA	EdInst		139.324	66.785	60.445	60.445	0	7
561	NSF	Apr-91	Mar-95	West Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		136	68				7
562	NSF	May-91	Oct-94	Atlanta	GA	GEORGIA TECH RESEARC	EdInst		249.827	61.914				7
563	NSF	Apr-91	Mar-94	San Diego	CA	U OF CAL SAN DIEGO	EdInst		510.979	265.745				7
564	NSF	Jul-90	Apr-96	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		148.942	62.5	62.5	62.5	0	7
565	NSF	Sep-90	Aug-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		251.75	55.25	51.5	51.5	0	7
566	NSF	Sep-90	Feb-96	Salt Lake City	UT	UNIVERSITY OF UTAH	EdInst		254.894	45.833	25	25	0	7
567	NSF	Oct-90	Sep-95	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		146.158	70.025	88.916	88.916	0	7
568	NSF	Jul-90	Jun-94	Madison	WI	U OF WISCONSIN MADISC	EdInst		155	46.667	72.5	72.5	0	8
569	NSF	Jul-90	Dec-95	Buffalo	NY	SUNY BUFFALO	EdInst		139.53	59.01	62.5	62.5	0	6
570	NSF	Jul-90	Jun-95	Madison	WI	U OF WISCONSIN MADISC	EdInst		150	81.25	100	100	0	7
571	NSF	Aug-90	Jan-96	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		187.5	62.5	62.5	62.5	0	7
572	NSF	Aug-90	Jul-97	State College	PA	PA ST U UNIVERSITY PAR	EdInst		170	60.833	110	110	0	6
573	NSF	Sep-90	Jan-94	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		172.9	10				7
574	NSF	Dec-91	Nov-94	Rochester	MI	OAKLAND UNIVERSITY	EdInst		118.794	59.397				7
575	NSF	Jul-92	Dec-94	East Hartford (T	CT	NO PERFORMER INFO AV	NotSpec		248.879	248.879				7
576	NSF	Apr-91	Mar-94	San Diego	CA	U OF CAL SAN DIEGO	EdInst		504.452	248.96				7
577	NSF	Jul-91	Jun-94	Norman	OK	U OF OKLAHOMA	EdInst		182.523	30.841	2.523	2.523	0	6
578	NSF	Jan-92	Jun-94	Pittsburgh	PA	U OF PITTSBURGH	PriEdInst		106.99	53.495				7
579	NSF	Dec-91	Nov-94	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		100.718	50.359				7
580	NSF	Mar-91	Aug-94	Tuscaloosa	AL	U OF ALABAMA TUSCALO	EdInst		90	32.5				7
581	NSF	Aug-91	Jul-94	Urbana	IL	U OF ILLINOIS URBANA	EdInst		263.476	132.804				7
582	NSF	Jun-92	May-95	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		16.825	16.825				7
583	NSF	Jan-92	Dec-94	Houghton	MI	MICH TECHNOLOGICAL U	EdInst		78.21	39.105				7
584	NSF	Mar-92	Aug-95	Laramie	WY	UNIVERSITY OF WYOMING	EdInst		3000	1000	1000	1000	0	7
585	NSF	Dec-91	Nov-93	Salt Lake City	UT	UNIVERSITY OF UTAH	EdInst		18	18				7

	Agency	Bureau	Program	Project	Award Number	Award Type
586	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9109183	E/G
587	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9109322	E/G
588	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9110381	E/G
589	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase II	9110387	E/G
590	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9110472	E/G
591	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9110900	E/G
592	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9112148	E/G
593	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9112962	E/G
594	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9113127	E/G
595	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9113394	E/G
596	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9113680	E/G
597	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9114006	E/G
598	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9114095	E/G
599	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114188	E/G
600	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114238	E/G
601	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114313	E/G
602	NSF	ENG	Civil & mechanical systems (CMS)	Solid Mechanics	9114360	E/G
603	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114459	E/G
604	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114476	E/G
605	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114511	E/G
606	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9114543	E/G
607	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9114679	E/G
608	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9114895	E/G
609	NSF	SBE	International cooperative scientific activities	International activities - Other	9114971	E/G
610	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9115197	E/G
611	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9115315	E/G
612	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9115422	E/G
613	NSF	SBE	International cooperative scientific activities	International activities - Other	9115553	E/G
614	NSF	SBE	International cooperative scientific activities	International activities - Other	9115880	E/G
615	NSF	CSE	Information, robotics & intelligent systems (I	Knowledge Models & Cognitive Systems	9116399	E/G
616	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9116411	E/G
617	NSF	CSE	Information, robotics & intelligent systems (I	Database & Expert Systems	9116646	E/G
618	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9116666	E/G
619	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9116714	E/G
620	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9117049	E/G
621	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9117267	E/G
622	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9117732	E/G
623	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9118769	E/G
624	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120058	E/G
625	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120096	E/G
626	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120128	E/G
627	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120201	E/G
628	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120214	E/G
629	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120281	E/G
630	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9120388	E/G
631	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9120397	E/G
632	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9121292	E/G
633	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9121342	E/G
634	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9121443	E/G
635	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9121943	E/G
636	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9122046	E/G
637	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9122704	E/G
638	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9122747	E/G
639	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9122922	E/G
640	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9122950	E/G
641	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9123015	E/G
642	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9123954	E/G
643	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9157050	E/G
644	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9157080	E/G
645	NSF	ENG	Electrical & communications systems (ECS	Systems Theory	9157835	E/G
646	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9157942	E/G
647	NSF	ENG	Design, manufacture & industrial innovation	Production Systems	9158136	E/G
648	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9158152	E/G
649	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9200117	E/G
650	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9200139	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Part Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
586	NSF	Sep-91	Aug-94	Amherst (censu	MA	U OF MASSACHUSETTS A	EdInst		69.981	10				7
587	NSF	May-91	Oct-95	Boulder	CO	ATKINSON-NOLAND ASSO	IndBus		335	78.619				7
588	NSF	Feb-92	Jul-94	Piscataway (To	NJ	NO PERFORMER INFO AV	NotSpec		114.54	114.54				7
589	NSF	Aug-93	Jan-95	Lithonia	GA	EARTHWATER CORPORA	IndBus		250	129	118.02	118.02	0	7
590	NSF	Jul-91	Dec-93	Coral Gables	FL	UNIVERSITY OF MIAMI	PriEdInst		66.293	9				7
591	NSF	Jul-91	Jun-94	Storrs	CT	UNIV OF CONNECTICUT	EdInst		69.92	10				7
592	NSF	Sep-91	May-94	Beaverton	OR	NO PERFORMER INFO AV	NotSpec		158.462	75.425				7
593	NSF	Jul-91	Dec-94	Potsdam	NY	CLARKSON UNIVERSITY	PriEdInst		163.199	12.5				7
594	NSF	Oct-91	Jun-94	New York	NY	COLUMBIA UNIVERSITY	PriEdInst		120	59.255				7
595	NSF	Nov-91	Mar-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		40	40				7
596	NSF	May-91	Oct-93	Boulder	CO	U OF COLORADO BOULDE	EdInst		78.889	9.999				7
597	NSF	Nov-91	Apr-95	Baltimore	MD	JOHNS HOPKINS UNIVER	PriEdInst		295.127	98.376	63.541	63.541	0	7
598	NSF	Nov-91	Oct-94	Stanford	CA	STANFORD UNIVERSITY	PriEdInst		140.02	140.02				8
599	NSF	Dec-91	May-95	Washington	DC	CATHOLIC UNIVERSITY	PriEdInst		104.235	52.118				7
600	NSF	Jan-92	Jun-95	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		259.969	86.656	78.717	78.717	0	7
601	NSF	Jan-92	Jun-94	Urbana	IL	U OF ILLINOIS URBANA	EdInst		32.366	32.366				7
602	NSF	Apr-92	Sep-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		180	60	48.133	48.133	0	7
603	NSF	Jan-92	Jun-95	Oakland	PA	CARNEGIE MELLON UNIVE	PriEdInst		215.937	71.979	74.194	74.194	0	5
604	NSF	Apr-92	Mar-95	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		284.902	94.967	97.102	97.102	0	7
605	NSF	May-91	Apr-95	Boulder	CO	ATKINSON-NOLAND ASSO	IndBus		213.281	48.101	71.299	71.299	0	7
606	NSF	Oct-91	Sep-94	Houston	TX	U OF HOUSTON	EdInst		132.7	20.694				7
607	NSF	Jan-92	Sep-94	Columbia	MO	U OF MISSOURI COLUMBI	EdInst		50.968	50.968				7
608	NSF	Feb-92	Jan-95	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		127.469	127.469				7
609	NSF	Mar-92	Feb-95	Baltimore	MD	JOHNS HOPKINS UNIVER	PriEdInst		164.7	164.7				7
610	NSF	Oct-91	Mar-94	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		82.5	90.958				7
611	NSF	Nov-91	Apr-95	Madison	WI	U OF WISCONSIN MADISC	EdInst		117.58	58.79				7
612	NSF	Jan-92	Jul-95	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		397.103	156.01	209.14	209.14	0	7
613	NSF	May-92	Apr-95	San Diego	CA	U OF CAL SAN DIEGO	EdInst		14.25	14.25				7
614	NSF	Jun-92	Nov-95	Pittsburgh	PA	U OF PITTSBURGH	PriEdInst		12.65	12.65				7
615	NSF	Mar-92	Aug-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		321.435	115.478	140.85	140.85	0	8
616	NSF	Dec-91	May-94	Washington	DC	NAT ACAD OF SCIENCES	NonprofNonE		240	80	40	40	0	7
617	NSF	Sep-91	Feb-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		650	300				6
618	NSF	Dec-91	May-94	Amherst (censu	MA	U OF MASSACHUSETTS A	EdInst		119.7	119.7				5
619	NSF	Mar-92	Feb-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		71.102	71.102				6
620	NSF	Feb-92	Jan-96	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		156	52	55.22	55.22	0	7
621	NSF	Mar-92	Aug-94	Gainesville	FL	U OF FLORIDA	EdInst		258.703	129.352				7
622	NSF	Feb-92	Jul-95	Silver Spring	MD	BTI	IndBus		261.433	87.144	41.892	41.892	0	7
623	NSF	Nov-92	Apr-96	Long Beach	CA	CAL STATE U LONG BEAC	EdInst		266.645	87.104	87.964	87.964	0	7
624	NSF	Nov-91	Feb-94	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		42.8	42.8				7
625	NSF	Sep-91	Aug-94	Ann Arbor	MI	NO PERFORMER INFO AV	NotSpec		140.049	67.907				7
626	NSF	Feb-92	Jan-95	Irvine	CA	U OF CAL IRVINE	EdInst		345.203	115.068	118.99	118.99	0	7
627	NSF	Aug-91	Jul-94	Austin	TX	U OF TEXAS AUSTIN	EdInst		75.15	37.7				7
628	NSF	Sep-91	Feb-94	San Francisco	CA	RUTHERFORD AND CHEK	IndBus		34.816	13.653				7
629	NSF	Sep-91	Feb-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		379.934	140.062				7
630	NSF	Sep-91	Aug-94	Bethlehem	PA	LEHIGH UNIVERSITY	PriEdInst		80.761	46.251				7
631	NSF	Jan-92	Dec-94	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		66.901	66.901				7
632	NSF	Jun-92	May-95	East Lansing	MI	MICHIGAN STATE UNIVER	EdInst		106.945	53.473				7
633	NSF	Mar-92	Oct-94	Washington	DC	NATL INST OF BUILDING S	NonprofNonE		10	10				2
634	NSF	Apr-92	Sep-94	Tempe	AZ	ARIZONA STATE UNIVER	EdInst		86	43				7
635	NSF	Apr-92	Mar-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		505.687	168.562	182	182	0	7
636	NSF	Jan-92	Dec-94	Irvine	CA	U OF CAL IRVINE	EdInst		250	125				7
637	NSF	Jul-92	Jun-95	Ann Arbor	MI	NO PERFORMER INFO AV	NotSpec		147.172	147.172				7
638	NSF	Sep-91	Feb-94	Irvine	CA	U OF CAL IRVINE	EdInst		62.5	19.5				7
639	NSF	Mar-92	Aug-95	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		155.21	51.737	15.21	15.21	0	7
640	NSF	Mar-92	Feb-95	Austin	TX	U OF TEXAS AUSTIN	EdInst		240	80	80	80	0	7
641	NSF	Mar-92	Aug-94	Lincoln	NE	U OF NEBRASKA LINCOLN	EdInst		260.034	130.017				7
642	NSF	May-92	Apr-94	Redondo Beach	CA	CRISIS MANAGEMENT CO	IndBus		126.598	126.598				7
643	NSF	Aug-91	Jan-97	Worcester	MA	WORCESTER POLYTECH	PriEdInst		275	62.5	62.5	62.5	0	7
644	NSF	Jul-91	Dec-95	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		323.036	66.012	72.5	72.5	0	7
645	NSF	Aug-91	Jul-94	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		87.5	62.5				8
646	NSF	Jul-91	Dec-95	Chicago	IL	ILLINOIS INST OF TECH	PriEdInst		212.5	62.5				7
647	NSF	Sep-91	Aug-96	Madison	WI	U OF WISCONSIN MADISC	EdInst		280	64.167	62.5	62.5	0	5
648	NSF	Sep-91	Feb-96	Seattle	WA	U OF WASHINGTON	EdInst		212.5	62.5	62.5	62.5	0	7
649	NSF	May-92	Oct-93	Albuquerque	NM	UNIVERSITY OF NEW MEX	EdInst		39.923	39.923				3
650	NSF	May-92	Oct-95	Brooklyn	NY	POLYTECHNIC UNIVERSIT	PriEdInst		161.597	53.866	57.053	57.053	0	3

	Agency	Bureau	Program	Project	Award Number	Award Type
651	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9200605	E/G
652	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9200829	E/G
653	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9200892	E/G
654	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9201437	E/G
655	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9201546	E/G
656	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9201553	E/G
657	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9201687	E/G
658	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9201697	E/G
659	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9201787	E/G
660	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9201812	E/G
661	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9201908	E/G
662	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9201944	E/G
663	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9201962	E/G
664	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9202039	E/G
665	NSF	MPS	Mathematical sciences (DMS)	Algebra & Number Theory	9202071	E/G
666	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9202092	E/G
667	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9202134	E/G
668	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9202327	E/G
669	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9202731	E/G
670	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9202905	E/G
671	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9203140	E/G
672	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9203276	E/G
673	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9203927	E/G
674	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9204035	E/G
675	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9204433	E/G
676	NSF	GEO	Earth sciences (EAR)	Geophysics	9204643	E/G
677	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9207158	E/G
678	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9209675	E/G
679	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9209971	E/G
680	NSF	ENG	Design, manufacture & industrial innovation	Computer Integrated Engineering	9210018	E/G
681	NSF	ENG	Civil & mechanical systems (CMS)	Dynamic Systems & Control	9210178	E/G
682	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9210585	E/G
683	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9210721	E/G
684	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9210894	E/G
685	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9211063	E/G
686	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9211421	E/G
687	NSF	ENG	Design, manufacture & industrial innovation	Computer Integrated Engineering	9211657	E/G
688	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9211678	E/G
689	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9212059	E/G
690	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9212318	E/G
691	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9212350	E/G
692	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9212505	E/G
693	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9212519	E/G
694	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9212700	E/G
695	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9212733	E/G
696	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9212737	E/G
697	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9213172	E/G
698	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9213563	E/G
699	NSF	ENG	Design, manufacture & industrial innovation	Production Systems	9213645	E/G
700	NSF	SBE	International cooperative scientific activities	Eastern Europe	9213675	E/G
701	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9213707	E/G
702	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9214248	E/G
703	NSF	SBE	International cooperative scientific activities	International activities - Other	9214251	E/G
704	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9214503	E/G
705	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9214664	E/G
706	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9214738	E/G
707	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9214754	E/G
708	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9214999	E/G
709	NSF	CSE	Information, robotics & intelligent systems (I	Interactive Systems	9215178	E/G
710	NSF	ENG	Civil & mechanical systems (CMS)	Solid Mechanics	9215299	E/G
711	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9215412	E/G
712	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9215521	E/G
713	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9215522	E/G
714	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9215567	E/G
715	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9215722	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
651	NSF	Jan-92	Jun-95	Boulder	CO	ATKINSON-NOLAND ASSO	IndBus		50	50				7
652	NSF	Nov-92	Apr-96	Norman	OK	U OF OKLAHOMA	EdInst		52.664	26.332	0	0	0	7
653	NSF	Jul-92	Dec-94	Golden	CO	COLORADO SCHOOL OF M	EdInst		78.279	39.14				7
654	NSF	Jun-92	Nov-94	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		179.995	59.998	62.508	62.508	0	7
655	NSF	Mar-92	Feb-96	Houston	TX	U OF HOUSTON UNIV PAR	EdInst		157.906	157.906				6
656	NSF	Feb-92	Aug-94	Gaithersburg	MD	NIST	Oth		40	20				7
657	NSF	Jul-92	Dec-94	Raleigh	NC	NORTH CAROLINA STATE	EdInst		104.001	36.709	26.651	26.651	0	8
658	NSF	Nov-92	Apr-96	Raleigh	NC	NORTH CAROLINA STATE	EdInst		137.608	46.395	47.498	47.498	0	8
659	NSF	Jul-92	Dec-95	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		329.98	109.993	116.81	116.81	0	7
660	NSF	Jul-92	Jun-95	Irvine	CA	U OF CAL IRVINE	EdInst		210	70	73.94	73.94	0	7
661	NSF	Dec-92	May-96	Reno	NV	U OF NEVADA RENO	EdInst		204.923	80.679	71.008	71.008	0	7
662	NSF	Aug-92	Jan-95	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		150	50	100	100	0	7
663	NSF	Jun-92	Nov-95	Boulder	CO	U OF COLORADO BOULDE	EdInst		215.76	71.92	70.485	70.485	0	7
664	NSF	Jul-92	Dec-94	Atlanta	GA	GA TECH RES CORP - GIT	EdInst		180	90				7
665	NSF	Aug-92	Jan-96	Boston	MA	NORTHEASTERN UNIVER	PriEdInst		80	26.667	27	27	0	7
666	NSF	Sep-92	Feb-95	College Station	TX	TEXAS A&M U RESEARCH	EdInst		290	100	108.76	108.76	0	7
667	NSF	Jul-92	Dec-94	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		140.071	46.69	45.913	45.913	0	7
668	NSF	Aug-92	Jul-95	Buffalo	NY	SUNY BUFFALO	EdInst		85.892	28.631	28.977	28.977	0	7
669	NSF	Aug-92	Jan-96	Norman	OK	U OF OKLAHOMA	EdInst		216.372	54.457	74.029	74.029	0	7
670	NSF	Nov-92	Oct-94	Gainesville	FL	U OF FLORIDA	EdInst		150	75	53.145	53.145	0	5
671	NSF	May-92	Oct-94	Seattle	WA	U OF WASHINGTON	EdInst		119.684	39.895	41.56	41.56	0	7
672	NSF	Dec-92	Nov-95	Coral Gables	FL	UNIVERSITY OF MIAMI	PriEdInst		171.399	54.203				7
673	NSF	Aug-92	Jul-94	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		59.756	59.756				7
674	NSF	Apr-92	Sep-94	Blacksburg	VA	VIRGINIA POLYTECHNIC II	EdInst		2.75	2.75				7
675	NSF	Nov-92	Apr-96	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		180.083	60.334	61.121	61.121	0	7
676	NSF	Jul-92	Dec-93	Chapel Hill	NC	U OF NC CHAPEL HILL	EdInst		45.396	45.396				7
677	NSF	Sep-92	Aug-94	Seattle	WA	URBAN REGIONAL RESEA	IndBus		79.806	79.806				7
678	NSF	May-92	Oct-93	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		17.902	17.902				7
679	NSF	Aug-92	Jul-94	Lafayette	LA	U OF SOUTHWESTERN LOU	EdInst		16.984	16.984				7
680	NSF	Sep-92	Feb-95	Tucson	AZ	U OF ARIZONA	EdInst		118.9	39.633	40	40	0	7
681	NSF	Sep-92	Aug-96	Cincinnati	OH	U OF CINCINNATI	EdInst		90	30	30	30	0	8
682	NSF	Jun-93	May-96	Houston	TX	WILLIAM MARSH RICE UN	PriEdInst		86.302	86.302				7
683	NSF	Sep-92	Feb-95	College Park	MD	U OF MD COLLEGE PARK	EdInst		99.951	34.67	60	60	0	8
684	NSF	Mar-93	Aug-96	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		95.495	95.495				7
685	NSF	Aug-92	Jan-95	Tempe	AZ	ARIZONA STATE UNIVERS	EdInst		99.151	33.05	59.922	59.922	0	7
686	NSF	Sep-92	Aug-95	Austin	TX	U OF TEXAS AUSTIN	EdInst		100	46.667	60	60	0	8
687	NSF	Aug-92	Jul-96	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		89.732	29.911	24.014	24.014	0	8
688	NSF	Jan-93	Dec-96	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		282.99	73.051	69.969	69.969	0	7
689	NSF	Sep-92	Aug-95	Aloha	OR	OREGON GRAD INST OF S	PriEdInst		94.19	31.397	29.931	29.931	0	7
690	NSF	Nov-92	Apr-96	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		224.994	79.985	78.51	78.51	0	7
691	NSF	Dec-92	May-94	Potsdam	NY	CLARKSON UNIVERSITY	PriEdInst		25.535	25.535				7
692	NSF	Jul-92	Dec-93	Albuquerque	NM	UNIVERSITY OF NEW MEX	EdInst		10.6	10.6				7
693	NSF	May-92	Oct-93	Richmond	CA	CUREE	NonprofNonE		36.855	36.855				7
694	NSF	Jul-92	Jun-94	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		36.837	18.419				7
695	NSF	Dec-92	May-96	Albuquerque	NM	UNIVERSITY OF NEW MEX	EdInst		141.523	52.851	47.892	47.892	0	7
696	NSF	Nov-92	Oct-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		180	60	60	60	0	7
697	NSF	Sep-92	Feb-95	Rolla	MO	U OF MISSOURI ROLLA	EdInst		248.508	82.836	55.579	55.579	0	7
698	NSF	Dec-92	Nov-94	State College	PA	PA ST U UNIVERSITY PAR	EdInst		104	104				7
699	NSF	Jun-92	May-94	Tuscaloosa	AL	NO PERFORMER INFO AV	NotSpec		8.54	8.54				5
700	NSF	Mar-93	Aug-96	State College	PA	PA ST U UNIVERSITY PAR	EdInst		26.275	26.275				7
701	NSF	May-93	Oct-94	Houston	TX	U OF HOUSTON	EdInst		156.757	78.379	84.635	84.635	0	7
702	NSF	Jun-93	Nov-96	Seattle	WA	U OF WASHINGTON	EdInst		280.07	82.518	115.04	115.04	0	7
703	NSF	Sep-92	Dec-93	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		19	19				7
704	NSF	Dec-92	May-97	Burlington	VT	U OF VERMONT	EdInst		271.397	77.347				7
705	NSF	Sep-92	Feb-96	Rolla	MO	U OF MISSOURI ROLLA	EdInst		234.73	157.365				7
706	NSF	Nov-92	Oct-94	Coral Gables	FL	UNIVERSITY OF MIAMI	PriEdInst		50.522	50.522				7
707	NSF	Jan-93	Dec-93	Los Angeles	CA	SRE	IndBus		25	25				7
708	NSF	Feb-93	Jul-94	Emeryville	CA	CLADDING RES INST	IndBus		65	65				7
709	NSF	Apr-93	Sep-94	Washington	DC	NAT ACAD OF SCIENCES	NonprofNonE		34.71	34.71				5
710	NSF	Sep-92	Feb-94	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		14.227	14.227				7
711	NSF	Nov-92	Apr-96	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		200	74.908	70.896	70.896	0	7
712	NSF	Mar-93	Aug-96	Brooklyn	NY	POLYTECHNIC UNIVERSIT	PriEdInst		187.096	64.032	59.032	59.032	0	6
713	NSF	Aug-92	Jan-94	San Francisco	CA	EQE INTERNATIONAL INC	IndBus		45.51	22.755				7
714	NSF	Jan-93	Jun-96	Ames	IA	IOWA STATE UNIVERSITY	EdInst		207.261	77.779	75.188	75.188	0	7
715	NSF	Aug-92	Jan-95	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		160	53.333	100	100	0	7

	Agency	Bureau	Program	Project	Award Number	Award Type
716	NSF	ENG	Engineering education & centers (EEC)	Industry/University Cooperative Research Center	9215864	E/G
717	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9215935	E/G
718	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9216233	E/G
719	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9216234	E/G
720	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9216881	E/G
721	NSF	SBE	International cooperative scientific activities	Americas	9217433	E/G
722	NSF	SBE	International cooperative scientific activities	Americas	9217441	E/G
723	NSF	SBE	International cooperative scientific activities	Japan	9218165	E/G
724	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9218182	E/G
725	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9218229	E/G
726	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9218343	E/G
727	NSF	SBE	International cooperative scientific activities	Japan	9218743	E/G
728	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9219921	E/G
729	NSF	SBE	International cooperative scientific activities	International activities - Other	9221217	E/G
730	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9221314	E/G
731	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9221517	E/G
732	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9221522	E/G
733	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9221527	E/G
734	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9221531	E/G
735	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9221634	E/G
736	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9221977	E/G
737	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9222022	E/G
738	NSF	ENG	Bioengineering & environmental systems (B	Ocean Engineering Systems	9222032	E/G
739	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9222034	E/G
740	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9222064	E/G
741	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9222110	E/G
742	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9222114	E/G
743	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9222116	E/G
744	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9222184	E/G
745	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9222559	E/G
746	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9222581	E/G
747	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9222669	E/G
748	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9222710	E/G
749	NSF	SBE	International cooperative scientific activities	East Asia & Pacific	9222933	E/G
750	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9223234	E/G
751	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9223453	E/G
752	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9223656	E/G
753	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9223680	E/G
754	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9223778	E/G
755	NSF	SBE	Social, behavioral & economic research (SE	Ethics & Values Studies	9224037	E/G
756	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9224316	E/G
757	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9224479	E/G
758	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9224531	E/G
759	NSF	ENG	Electrical & communications systems (ECS	Computational Engineering	9224828	E/G
760	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9224837	E/G
761	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9224838	E/G
762	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9224945	E/G
763	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9225056	E/G
764	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9225108	E/G
765	NSF	EHR	Human resource development (HRD)		9252923	E/G
768	NSF	ENG	Civil & mechanical systems (CMS)	Solid Mechanics	9253777	E/G
767	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9256719	E/G
768	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9257231	E/G
769	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9257344	E/G
770	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9257900	E/G
771	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9257933	E/G
772	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9258648	E/G
773	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9260109	E/G
774	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9260918	E/G
775	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9296139	E/G
776	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9296190	E/G
777	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9300195	E/G
778	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9300323	E/G
779	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9300682	E/G
780	NSF	ENG	Design, manufacture & industrial innovation	Engineering Design	9300742	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
716	NSF	Oct-92	Mar-94	Newark	NJ	NJIT	EdInst		150	137.5				7
717	NSF	Aug-92	Jul-95	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		160	53.333	87.226	87.226	0	6
718	NSF	Jun-92	May-94	Urbana	IL	U OF ILLINOIS URBANA	EdInst		35.464	35.464				7
719	NSF	Jun-92	Nov-93	Troy	NY	NO PERFORMER INFO AV	NotSpec		38.298	38.298				7
720	NSF	Jun-93	Nov-94	Woodland Hills	CA	MICHAEL E DURKIN ASSO	IndBus		81.728	40.864	12	12	0	7
721	NSF	Apr-93	Mar-95	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		19.55	19.55				7
722	NSF	Jan-93	Dec-94	Tampa	FL	U OF SOUTH FLORIDA	EdInst		4.832	4.832				7
723	NSF	Apr-93	Mar-96	State College	PA	PA ST U UNIVERSITY PAR	EdInst		13.595	13.595				7
724	NSF	Dec-92	May-94	Rolla	MO	U OF MISSOURI ROLLA	EdInst		20	20				7
725	NSF	Sep-92	Feb-94	Las Cruces	NM	NEW MEXICO ST UNIVERS	EdInst		49.962	24.981				7
726	NSF	Sep-92	Aug-95	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		134.138	51.897	45.208	45.208	0	7
727	NSF	Apr-93	Mar-94	Davis	CA	U OF CAL DAVIS	EdInst		11	11				7
728	NSF	Sep-92	Feb-95	Seattle	WA	U OF WASHINGTON	EdInst		107.997	35.999	35.999	35.999	0	7
729	NSF	Mar-93	Aug-94	State College	PA	PA ST U UNIVERSITY PAR	EdInst		58.936	58.936				7
730	NSF	Mar-93	Aug-95	Reno	NV	U OF NEVADA RENO	EdInst		79.342	39.671	36.708	36.708	0	7
731	NSF	Jan-93	Jun-95	Seattle	WA	U OF WASHINGTON	EdInst		155.423	155.423				7
732	NSF	Sep-92	Aug-95	Houston	TX	WILLIAM MARSH RICE UN	PriEdInst		100	200				7
733	NSF	Sep-92	Feb-94	Los Angeles	CA	NABIH YOUSSEF & ASSOC	IndBus		62	51.115				7
734	NSF	Feb-93	Jul-96	Austin	TX	U OF TEXAS AUSTIN	EdInst		220	74.5	80	80	0	7
735	NSF	Nov-92	Apr-95	San Jose	CA	SAN JOSE STATE UNIVER	EdInst		107.31	107.31				7
736	NSF	Apr-93	Sep-96	Lawrence	KS	U OF KANSAS CTR FOR R	EdInst		190.879	70.428				6
737	NSF	Apr-93	Sep-96	Rolla	MO	U OF MISSOURI ROLLA	EdInst		149.051	47.344	51.446	51.446	0	7
738	NSF	Apr-94	Mar-96	College Station	TX	TEXAS ENGINEERING EXP	EdInst		239.098	75.472	75.472	75.472	0	7
739	NSF	Apr-93	Sep-96	Columbia	MO	U OF MISSOURI COLUMBI	EdInst		278.423	98.195	72.115	72.115	0	7
740	NSF	Mar-93	Aug-96	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		130	42.5	45	45	0	7
741	NSF	Mar-93	Feb-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		56.59	56.59				7
742	NSF	Feb-93	Jan-96	Columbus	OH	OHIO STATE UNIV RES FD	EdInst		132.533	41.932	44.833	44.833	0	6
743	NSF	Mar-93	Aug-96	Cambridge	MA	MIT	PriEdInst		280.316	89.013	94.77	94.77	0	7
744	NSF	Apr-93	Sep-94	Boston	MA	NORTHEASTERN UNIVER	PriEdInst		30.544	30.544				7
745	NSF	Sep-92	Feb-94	Palo Alto	CA	ELECTRIC POWER RES IN	NonproNonE		12	12				7
746	NSF	Jan-93	Dec-93	Clemson	SC	CLEMSON UNIVERSITY	EdInst		18.621	18.621				7
747	NSF	Aug-93	Jan-96	Pullman	WA	WASHINGTON STATE UNI	EdInst		195.295	71.868	115.52	115.52	0	7
748	NSF	Sep-92	Feb-94	Buffalo	NY	SUNY BUFFALO	EdInst		29.992	14.996				7
749	NSF	Apr-93	Mar-94	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		23.168	23.168				7
750	NSF	Jul-93	Jun-96	Irvine	CA	U OF CAL IRVINE	EdInst		322.355	180				7
751	NSF	Oct-93	Mar-96	Oakland	CA	EARTHQUAKE ENG RES II	NonproNonE		45	54.54	54.54	54.54	0	7
752	NSF	Sep-93	Feb-96	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		225.235	75.506	72.437	72.437	0	7
753	NSF	May-93	Apr-95	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		148.113	148.113				6
754	NSF	Jul-93	Jun-97	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		282.99	73.051	69.969	69.969	0	7
755	NSF	Mar-93	Feb-95	Eugene	OR	U OF OREGON EUGENE	EdInst		60.001	60.001				7
756	NSF	Jul-93	Dec-95	Las Cruces	NM	NEW MEXICO ST UNIVER	EdInst		153.405	54.742	60.814	60.814	0	7
757	NSF	Aug-93	Jul-96	Los Angeles	CA	U OF CAL LOS ANGELES	EdInst		188.99	41.345	72.863	72.863	0	7
758	NSF	Apr-93	Sep-95	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		138.813	69.407	20	20	0	7
759	NSF	May-94	Oct-96	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		149.184	54.437	54.437	54.437	0	7
760	NSF	Nov-92	Oct-94	Miami	FL	FLORIDA INTERNATIONAL	EdInst		45.844	45.844				7
761	NSF	Dec-92	Nov-93	Tallahassee	FL	FLORIDA STATE UNIVER	EdInst		38.951	38.951				7
762	NSF	Feb-93	Jul-94	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		50.782	50.782				7
763	NSF	Mar-93	Feb-94	Ithaca	NY	CORNELL UNIVERSITY EN	PriEdInst		7	7				7
764	NSF	Nov-92	Apr-94	College Station	TX	TEXAS A&M ENGINEER E	EdInst		50	50				7
765	NSF	Sep-92	Feb-95	Greensboro	NC	NORTH CAROLINA A&T ST	EdInst		349.998	144.778	75.86	75.86	0	7
766	NSF	Sep-92	Feb-96	Swarthmore	PA	SWARTHMORE COLLEGE	PriEdInst		500	133.333	100	100	0	5
767	NSF	Apr-93	Mar-98	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		444	444				7
768	NSF	Nov-92	Apr-94	West Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		25	14.07				6
769	NSF	Sep-92	Feb-97	Tucson	AZ	U OF ARIZONA	EdInst		212.5	37.5	62.5	62.5	0	7
770	NSF	Aug-92	Jan-96	Princeton	NJ	PRINCETON UNIVERSITY	PriEdInst		275	52.833	108.5	108.5	0	7
771	NSF	Dec-92	May-98	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		275	12.5				7
772	NSF	Aug-92	Jan-97	College Park	MD	U OF MD COLLEGE PARK	EdInst		212.5	37.5	62.5	62.5	0	7
773	NSF	Sep-93	May-94	East Setauket	NY	APPL BIOMATHEMATICS II	IndBus		49.902	49.902				6
774	NSF	Jan-93	Dec-93	Coral Gables	FL	H SAFFIR CONSULTING EI	IndBus		48.125	48.125				7
775	NSF	May-92	Aug-94	Tallahassee	FL	FLORIDA A&M UNIVERSIT	EdInst		148.873	30				7
776	NSF	Aug-92	Nov-94	Norman	OK	U OF OKLAHOMA	EdInst		60.926	10				7
777	NSF	Jun-93	Nov-94	Brooklyn	NY	POLYTECHNIC UNIVERSIT	PriEdInst		49.996	49.996				7
778	NSF	May-93	Oct-95	Columbia	MO	U OF MISSOURI COLUMBI	EdInst		150	50	50	50	0	3
779	NSF	May-93	Oct-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		150	75	71.391	71.391	0	7
780	NSF	Sep-93	Feb-95	Detroit	MI	WAYNE STATE UNIVERSIT	EdInst		82.247	82.247				6



	Agency	Bureau	Program	Project	Award Number	Award Type
781	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9300745	E/G
782	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9300827	E/G
783	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9300961	E/G
784	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301238	E/G
785	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9301307	E/G
786	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9301387	E/G
787	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301464	E/G
788	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301574	E/G
789	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9301577	E/G
790	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9301580	E/G
791	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301584	E/G
792	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9301674	E/G
793	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301778	E/G
794	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9301829	E/G
795	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301962	E/G
796	NSF	ENG	Civil & mechanical systems (CMS)	Dynamic Systems & Control	9301975	E/G
797	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9301989	E/G
798	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9302101	E/G
799	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9302102	E/G
800	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9302201	E/G
801	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9302222	E/G
802	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9302597	E/G
803	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9302612	E/G
804	NSF	MPS	Mathematical sciences (DMS)	Applied Mathematics	9302726	E/G
805	NSF	ENG	Electrical & communications systems (ECS)	Systems Theory	9302926	E/G
806	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9303138	E/G
807	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9303419	E/G
808	NSF	GEO	Earth sciences (EAR)	Geophysics	9304110	E/G
809	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9305397	E/G
810	NSF	MPS	Mathematical sciences (DMS)	Infrastructure	9305770	E/G
811	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307214	E/G
812	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307666	E/G
813	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307822	E/G
814	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307840	E/G
815	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307843	E/G
816	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9307666	E/G
817	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9307885	E/G
818	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9308188	E/G
819	NSF	CSE	Information, robotics & intelligent systems (I)	Knowledge Models & Cognitive Systems	9308308	E/G
820	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9309149	E/G
821	NSF	ENG	Chemical & transport systems (CTS)	Interfacial, Transport & Thermodynamic Processes	9309528	E/G
822	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9309623	E/G
823	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9309655	E/G
824	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9309754	E/G
825	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9309757	E/G
826	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9309775	E/G
827	NSF	ENG	Design, manufacture & industrial innovation	Computer Integrated Engineering	9309925	E/G
828	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9310055	E/G
829	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9310169	E/G
830	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9310490	E/G
831	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9310491	E/G
832	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9310716	E/G
833	NSF	ENG	Bioengineering & environmental systems (B)	Environmental Engineering Systems	9311144	E/G
834	NSF	SBE	International cooperative scientific activities	India	9311381	E/G
835	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9311549	E/G
836	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9311857	E/G
837	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9311996	E/G
838	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9312281	E/G
839	NSF	ENG	Civil & mechanical systems (CMS)	Geomechanical/Geotech & Geo-Environmental	9312418	E/G
840	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9312640	E/G
841	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9312682	E/G
842	NSF	ENG	Electrical & communications systems (ECS)	Lightwave Technology	9312726	E/G
843	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9312780	E/G
844	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9312785	E/G
845	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9312851	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
781	NSF	Dec-92	Nov-94	Fort Collins	CO	COLORADO STATE UNIVE	EdInst		39,927	39,927				6
782	NSF	Aug-93	Jan-97	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		170	70	70	70	0	7
783	NSF	Nov-92	Oct-94	Honolulu	HI	U OF HAWAII MANOA	EdInst		42,703	42,703				7
784	NSF	Dec-92	Nov-93	Amherst	NY	SUNY BUFFALO	EdInst		20	20				7
785	NSF	Apr-94	Mar-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		127,545	62,428	62,428	62,428	0	6
786	NSF	Dec-93	Nov-95	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		80	80	80	80	0	7
787	NSF	Aug-93	Jan-96	Corvallis	OR	OREGON STATE UNIVERS	EdInst		204.9	100	102.6	102.6	0	7
788	NSF	Jul-93	Dec-94	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		199,695	99,848	97,446	97,446	0	7
789	NSF	Oct-93	Mar-96	Seattle	WA	U OF WASHINGTON	EdInst		158,121	68,908	72,816	72,816	0	7
790	NSF	May-94	Sep-96	Iowa City	IA	UNIVERSITY OF IOWA	EdInst		182,812	59,675	59,675	59,675	0	7
791	NSF	Sep-93	Feb-95	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		159,999	58,783	87,567	87,567	0	7
792	NSF	May-94	Oct-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		138.72	64.432	64.432	64.432	0	6
793	NSF	Jul-93	Dec-95	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		135.15	44,505				7
794	NSF	Sep-93	Feb-96	Rapid City	SD	SD SCH OF MINES AND TE	EdInst		355,044	101,362	167.72	167.72	0	7
795	NSF	Aug-93	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		96	96				7
796	NSF	Jul-93	Dec-94	Cookeville	TN	TENNESSEE TECHNOLOG	EdInst		100	50	52.165	52.165	0	7
797	NSF	Aug-93	Jul-96	Berkeley	CA	U OF CAL BERKELEY	EdInst		90.11	62,555	35	35	0	7
798	NSF	Aug-93	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		74.89	74.89				7
799	NSF	Aug-93	Jul-95	Irvine	CA	U OF CAL IRVINE	EdInst		199,999	66.5	67	67	0	7
800	NSF	Aug-93	Jan-95	Rolla	MO	U OF MISSOURI ROLLA	EdInst		245.76	122.88	122.46	122.46	0	7
801	NSF	Mar-94	Feb-96	Austin	TX	U OF TEXAS AUSTIN	EdInst		211.1	71.1	71.1	71.1	0	7
802	NSF	Apr-93	Aug-94	Boulder	CO	U OF COLORADO BOULDE	EdInst		42,916	42,916				7
803	NSF	Jul-93	Jun-95	Oakland	CA	ASSN OF BAY AREA GOV	StaLocGov		170	102	34	34	0	7
804	NSF	Jul-93	Nov-95	College Park	MD	U OF MD COLLEGE PARK	EdInst		165,001	63	71	71	0	8
805	NSF	Aug-93	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		165	55	55	55	0	7
806	NSF	Sep-93	Aug-95	Tucson	AZ	UNIVERSITY OF ARIZONA	EdInst		24,429	18,262	12,095	12,095	0	7
807	NSF	Mar-93	Feb-94	San Diego	CA	U OF CAL SAN DIEGO	EdInst		50	50				7
808	NSF	Sep-93	Aug-94	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		33,707	36,047	38,387	38,387	0	7
809	NSF	Apr-93	Mar-94	Washington	DC	CERF	NonprofNonE		75	75				7
810	NSF	Aug-93	Jan-95	Clemson	SC	CLEMSON UNIVERSITY	EdInst		17,973	17,973				7
811	NSF	Apr-93	Feb-94	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		4.7	4.7				7
812	NSF	Aug-93	Jan-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		180	90	81,245	81,245	0	7
813	NSF	Sep-93	Aug-95	San Diego	CA	U OF CAL SAN DIEGO	EdInst		102	36	32	32	0	7
814	NSF	Sep-93	Aug-95	San Diego	CA	U OF CAL SAN DIEGO	EdInst		150	50	50	50	0	7
815	NSF	Sep-93	Jul-95	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	EdInst		240,046	80,028	79,838	79,838	0	7
816	NSF	Aug-93	Jan-97	Bethlehem	PA	LEHIGH UNIVERSITY	PriEdInst		177,641	74,436	73,754	73,754	0	7
817	NSF	Aug-93	Jan-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		120	43,502	44,097	44,097	0	7
818	NSF	Apr-93	Sep-94	Washington	DC	NAT ACAD OF SCIENCES	NonprofNonE		25	25	25	25	0	4
819	NSF	Jun-93	Nov-96	Arlington	TX	U OF TEXAS ARLINGTON	EdInst		162,982	99,926				8
820	NSF	Aug-93	Jul-96	College Station	TX	TEXAS ENGINEERING EXP	EdInst		89,837	44,919	19,837	19,837	0	7
821	NSF	Oct-94	Sep-95	State College	PA	PA ST U UNIVERSITY PAR	EdInst		170	85	85	85	0	7
822	NSF	May-94	Sep-96	Auburn	AL	AUBURN UNIVERSITY	EdInst		0	0	0	0	0	8
823	NSF	May-94	Sep-96	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		100	40	40	40	0	6
824	NSF	Aug-93	Jul-95	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		18	18				7
825	NSF	Aug-93	Jan-95	Pullman	WA	WASHINGTON STATE UNIV	EdInst		90	31,524	51.73	51.73	0	7
826	NSF	Feb-94	Jan-96	Santa Barbara	CA	U OF CAL SANTA BARBAR	EdInst		239,716	18,224	18,224	18,224	0	7
827	NSF	Aug-93	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		25	25				3
828	NSF	Sep-93	Feb-95		GA	U OF GEORGIA RES FDN	EdInst		49,064	49,064				7
829	NSF	Jul-93	Dec-94	Princeton	NJ	INTER ASSOC STRUC SAF	NonprofNonE		15	15				7
830	NSF	Aug-93	Nov-97	Richmond	CA	CUREE	NonprofNonE		258,494	64	69.5	69.5	0	7
831	NSF	Sep-93	Aug-94	New York	NY	COLUMBIA UNIVERSITY	PriEdInst		40,895	21,175	1,455	1,455	0	7
832	NSF	Nov-93	Apr-96	Menlo Park	CA	WILLIAM SPANGLE & ASS	IndBus		152,017	182,394	182.39	182.39	0	6
833	NSF	Sep-93	Aug-94	Riverside	CA	U OF CAL RIVERSIDE	EdInst		195,827	97,914	95,269	95,269	0	7
834	NSF	Jun-93	May-94	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		0	539.9				7
835	NSF	Jun-93	Aug-94	Los Angeles	CA	U OF CAL LOS ANGELES	EdInst		29,501	29,501				7
836	NSF	Jan-94	Jun-95	New Orleans	LA	UNIVERSITY OF NEW ORL	PriEdInst		270,346	124,257	124.26	124.26	0	2
837	NSF	May-93	Oct-94	Boulder	CO	ATKINSON-NOLAND ASSC	IndBus		8,298	8,298				7
838	NSF	Apr-93	Mar-95	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		48,847	48,847				7
839	NSF	Jun-93	May-94	Cambridge	MA	MIT	PriEdInst		17,464	17,464				7
840	NSF	Aug-93	Jul-95	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		149,988	149,988				7
841	NSF	May-93	Oct-94	Albuquerque	NM	APPLIED RESEARCH ASS	IndBus		48,918	48,918				7
842	NSF	Aug-93	Jan-95	New Brunswick	NJ	RUTGERS U NEW BRUN	EdInst		50	50				7
843	NSF	May-93	Oct-94	Princeton	NJ	PRINCETON UNIVERSITY	PriEdInst		21.82	21.82				7
844	NSF	May-93	Apr-94	Buffalo	NY	SUNY BUFFALO	EdInst		35,112	35,112				7
845	NSF	Sep-94	Jul-97	Reno	NV	U OF NEVADA RENO	EdInst		166,512	16,253	16,253	16,253	0	7

	Agency	Bureau	Program	Project	Award Number	Award Type
846	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9312954	E/G
847	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9313062	E/G
848	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9313076	E/G
849	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9313122	E/G
850	NSF	ENG	Design, manufacture & industrial innovation	Engineering Design	9313186	E/G
851	NSF	ENG	Bioengineering & environmental systems (E	Environmental Engineering Systems	9313766	E/G
852	NSF	ENG	Electrical & communications systems (ECS	Neuroengineering	9313934	E/G
853	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9314197	E/G
854	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9314435	E/G
855	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9314527	E/G
856	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9314767	E/G
857	NSF	SBE	International cooperative scientific activities	Japan	9314853	E/G
858	NSF	SBE	International cooperative scientific activities	Japan	9315122	E/G
859	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9315240	E/G
860	NSF	ENG	Engineering education & centers (EEC)	Engineering Education	9315602	E/G
861	NSF	SBE	International cooperative scientific activities	Japan	9315649	E/G
862	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9315694	E/G
863	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9316983	E/G
864	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9317461	E/G
865	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9317722	E/G
866	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9317851	E/G
867	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9317876	E/G
868	NSF	BIO	Biological instrumentation & resources (BIR	Instrumentation & Instrument Development	9317890	E/G
869	NSF	MPS	Physics (PHY)	Theoretical Physics	9318152	E/G
870	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9318163	E/G
871	NSF	MPS	Mathematical sciences (DMS)	Computational Mathematics	9318166	E/G
872	NSF	BIO	Biological instrumentation & resources (BIR	Databases, Software Development & Comp	9318169	E/G
873	NSF	BIO	Biological instrumentation & resources (BIR	Databases, Software Development & Comp	9318183	E/G
874	NSF	MPS	Mathematical sciences (DMS)	Computational Mathematics	9318184	E/G
875	NSF	MPS	Astronomical sciences (AST)	Extragalactic Astronomy & Cosmology	9318185	E/G
876	NSF	SBE	International cooperative scientific activities	Americas	9318323	E/G
877	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9318776	E/G
878	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9318997	E/G
879	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9319204	E/G
880	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9319341	E/G
881	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9319434	E/G
882	NSF	MPS	Chemistry (CHE)	Statistical & Simulations	9319519	E/G
883	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9319802	E/G
884	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9319838	E/G
885	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9319841	E/G
886	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9319878	E/G
887	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9320014	E/G
888	NSF	ENG	Engineering education & centers (EEC)	Industry/University Cooperative Research Center	9320137	E/G
889	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9320150	E/G
890	NSF	SBE	International cooperative scientific activities	Western Europe	9320409	E/G
891	NSF	ENG	Electrical & communications systems (ECS	Quantum Electronics, Plasma & Electromechan	9320515	E/G
892	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9320896	E/G
893	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9321346	E/G
894	NSF	ENG	Chemical & transport systems (CTS)	Process & Reaction Engineering	9321863	E/G
895	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9322507	E/G
896	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9322524	E/G
897	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9322607	E/G
898	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9322717	E/G
899	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9322720	E/G
900	NSF	ENG	Chemical & transport systems (CTS)	Separation & Purification Processes	9322772	E/G
901	NSF	EHR	Graduate education & research development (GER)		9350076	E/G
902	NSF	EHR	Graduate education & research development (GER)		9355029	E/G
903	NSF	CSE	Computer & computation research (CCR)	Computer Systems Architecture	9357790	E/G
904	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9358075	E/G
905	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9358186	E/G
906	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9360007	E/G
907	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9360055	E/G
908	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9360497	E/G
909	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9360798	E/G
910	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9361511	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
846	NSF	May-94	Sep-96	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		220	70.168	70.168	70.168	0	8
847	NSF	Jan-94	Jun-96	Cambridge	MA	MIT	PriEdInst		246.655	80.424	80.424	80.424	0	7
848	NSF	Jun-94	Oct-96	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		210	65.29	65.29	65.29	0	7
849	NSF	May-94	Oct-95	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		14.996	14.996	14.996	14.996	0	7
850	NSF	Sep-93	Feb-96	Boulder	CO	U OF COLORADO BOULDE	EdInst		140	70	70	70	0	8
851	NSF	Sep-93	Aug-94	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		7.019	7.019				7
852	NSF	Aug-93	Jun-95	Baltimore	MD	JOHNS HOPKINS UNIVER	PriEdInst		220.554	72.399	71.248	71.248	0	7
853	NSF	Sep-93	Feb-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		47.2	23.6	0	0	0	7
854	NSF	Jun-93	Nov-93	Washington	DC	TRAVEL AWARD	PrivIndiv		0	3.569				7
855	NSF	Jun-94	Mar-96	Austin	TX	U OF TEXAS AUSTIN	EdInst		200	67.673	67.673	67.673	0	8
856	NSF	May-93	Feb-94	Washington	DC	TRAVEL AWARD	PrivIndiv		1.74	1.74				7
857	NSF	Apr-94	Sep-96	Richmond	CA	CUREE	NonprofNonE		28.25	28.25	28.25	28.25	0	7
858	NSF	Apr-94	Sep-95	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		15	15	15	15	0	7
859	NSF	Jun-94	Oct-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		135.094	69.752	69.752	69.752	0	7
860	NSF	Jul-94	Dec-95	Lubbock	TX	TEXAS TECH UNIVERSITY	EdInst		89.998	89.998	89.998	89.998	0	7
861	NSF	Apr-94	Mar-96	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		8.75	8.75	8.75	8.75	0	7
862	NSF	Aug-93	Jan-96	Brooklyn	NY	POLYTECHNIC UNIVERSIT	PriEdInst		137.498	30.552	42.173	42.173	0	7
863	NSF	Sep-93	Feb-96	Washington	DC	NAT ACAD OF SCIENCES	NonprofNonE		85	37.5	10	10	0	7
864	NSF	Dec-93	May-95	Memphis	TN	CENTRAL U.S. EARTHQUA	NonprofNonE		31.5	31.5	31.5	31.5	0	7
865	NSF	Sep-93	Feb-97	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		104.85	54.921	4.992	4.992	0	7
866	NSF	May-94	Oct-96	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		68.756	20.366	20.366	20.366	0	7
867	NSF	May-94	Oct-97	Clemson	SC	CLEMSON UNIVERSITY	EdInst		335.732	104.217	104.22	104.22	0	7
868	NSF	Feb-94	Jul-96	Boulder	CO	U OF COLORADO BOULDE	EdInst		202.5	202.5	202.5	202.5	0	7
869	NSF	Sep-93	Aug-98	Austin	TX	U OF TEXAS AUSTIN	EdInst		3750	568.5	887	887	0	7
870	NSF	Sep-93	Feb-98	Oakland	PA	CARNEGIE MELLON UNIVE	PriEdInst		2154	537	540	540	0	7
871	NSF	Sep-93	Feb-99	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		3210	570	665	665	0	6
872	NSF	Sep-93	Feb-97	Tucson	AZ	U OF ARIZONA	EdInst		900	405	510	510	0	7
873	NSF	Sep-93	Feb-99	College Park	MD	U OF MD COLLEGE PARK	EdInst		2965.7	687.5	809.3	809.3	0	7
874	NSF	Sep-93	May-95	Troy	NY	RENSSELAER POLYTECH	PriEdInst		2550	525	500	500	0	7
875	NSF	Sep-93	Feb-99	Princeton	NJ	PRINCETON UNIVERSITY	PriEdInst		3200	512.5	725	725	0	7
876	NSF	Apr-94	Mar-96	Austin	TX	U OF TEXAS AUSTIN	EdInst		12.43	12.43	12.43	12.43	0	7
877	NSF	Feb-94	Jul-95	Moscow	ID	UNIVERSITY OF IDAHO	EdInst		199.55	94.959	94.959	94.959	0	7
878	NSF	Feb-94	Jul-95	Boston	MA	NORTHEASTERN UNIVER	PriEdInst		180.926	100.346	100.35	100.35	0	7
879	NSF	Sep-94	Aug-96	Boulder	CO	U OF COLORADO BOULDE	EdInst		199.42	68.479	68.479	68.479	0	7
880	NSF	Oct-94	Aug-95	Pittsburgh	PA	U OF PITTSBURGH	PriEdInst		180	116.742	116.74	116.74	0	7
881	NSF	May-94	Sep-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		195.407	92.962	92.962	92.962	0	7
882	NSF	Feb-94	Jan-96	Los Angeles	CA	U OF CAL LOS ANGELES	EdInst		400	156	156	156	0	7
883	NSF	Nov-93	Apr-95	State College	PA	PA ST U UNIVERSITY PAR	EdInst		50	55	55	55	0	7
884	NSF	Jan-94	Dec-95	Cincinnati	OH	U OF CINCINNATI MAIN CA	EdInst		155.438	90.568	90.568	90.568	0	7
885	NSF	Sep-94	Jul-96	Raleigh	NC	NORTH CAROLINA STATE	EdInst		179.248	47.7	47.7	47.7	0	7
886	NSF	Sep-94	Aug-96	Cincinnati	OH	U OF CINCINNATI	EdInst		200	95.4	95.4	95.4	0	7
887	NSF	Sep-93	Feb-95	Blacksburg	VA	VIRGINIA POLYTECHNIC II	EdInst		10.044	10.044	10.043	10.043	0	7
888	NSF	Sep-93	Dec-93	College Station	TX	TEXAS A&M ENGINEER E	EdInst		10	10				5
889	NSF	Oct-94	Aug-96	Lafayette	IN	PURDUE UNIVERSITY	EdInst		199.833	199.833	199.83	199.83	0	7
890	NSF	Apr-94	Sep-95	Rapid City	SD	SD SCH OF MINES AND TE	EdInst		18.57	18.57	18.57	18.57	0	7
891	NSF	Aug-94	Jul-97	Madison	WI	U OF WISCONSIN MADISC	EdInst		265.63	88.662	88.662	88.662	0	7
892	NSF	May-94	Apr-96	Washington	DC	CERF	NonprofNonE		69.982	69.982	69.982	69.982	0	7
893	NSF	Dec-93	May-95	Atlanta	GA	GA TECH RES CORP - GIT	EdInst		20	20	20	20	0	8
894	NSF	Jul-94	Jun-95	Cambridge	MA	MIT	PriEdInst		50	49.295	49.295	49.295	0	8
895	NSF	Nov-93	Jun-95	Louisville	KY	U OF LOUISVILLE RES FD	EdInst		45.566	45.566	45.566	45.566	0	7
896	NSF	Oct-94	Jul-97	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		149.886	149.886	149.89	149.89	0	7
897	NSF	Feb-94	Jan-95	Ann Arbor	MI	U OF MICHIGAN ANN ARB	EdInst		38.995	38.995	38.995	38.995	0	7
898	NSF	Dec-93	Nov-95	Rolla	MO	U OF MISSOURI ROLLA	EdInst		50	50	50	50	0	5
899	NSF	Dec-93	May-95	Blacksburg	VA	VIRGINIA POLYTECHNIC II	EdInst		49.932	49.932	49.932	49.932	0	7
900	NSF	Feb-94	Oct-94	Austin	TX	CACHE CORPORATION	NonprofNonE		15	15	15	15	0	7
901	NSF	Sep-93	Feb-96	Corvallis	OR	OREGON STATE UNIVER	EdInst		186.299	186.299				7
902	NSF	Oct-93	Mar-97	Tucson	AZ	UNIVERSITY OF ARIZONA	EdInst		597.5	239				7
903	NSF	Aug-93	Jan-97	Seattle	WA	U OF WASHINGTON	EdInst		312.5	46.25	67.5	67.5	0	8
904	NSF	Sep-93	Feb-97	Salt Lake City	UT	UNIVERSITY OF UTAH	EdInst		275	41.856	58.712	58.712	0	7
905	NSF	Sep-93	Aug-97	Austin	TX	U OF TEXAS AUSTIN	EdInst		275	43.75	62.5	62.5	0	7
906	NSF	Jan-94	Dec-94	Carson City	NV	CARSONITE INTERNATION	IndBus		62.64	62.64	62.64	62.64	0	7
907	NSF	Jan-94	Dec-94	La Place	LA	TECHNOLOGY INTERNATI	IndBus		64.656	64.656	64.656	64.656	0	5
908	NSF	Jan-94	Dec-94	Atlanta	GA	STRAIN MONITOR SYSTEM	IndBus		64.861	64.861	64.861	64.861	0	7
909	NSF	Jan-94	Dec-94	Lithonia	GA	EARTH WATER CORPORA	IndBus		65	65	65	65	0	7
910	NSF	Mar-94	Jan-95	Sunnyvale	CA	INTELLIGENT MACHINES	IndBus		64.028	64.028	64.028	64.028	0	7

	Agency	Bureau	Program	Project	Award Number	Award Type
911	NSF	ENG	Design, manufacture & industrial innovation	SBIR-Phase I	9362052	E/G
912	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9400223	E/G
913	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9400521	E/G
914	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9400744	E/G
915	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9400752	E/G
916	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9401211	E/G
917	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9402049	E/G
918	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9402094	E/G
919	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9402170	E/G
920	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9402196	E/G
921	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9402224	E/G
922	NSF	CSE	Computer & computation research (CCR)	Theory of Computing	9402334	E/G
923	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9402392	E/G
924	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9402535	E/G
925	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9402572	E/G
926	NSF	ENG	Civil & mechanical systems (CMS)	Dynamic Systems & Control	9402608	E/G
927	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9402671	E/G
928	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9402802	E/G
929	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9402989	E/CA
930	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9403226	E/G
931	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9403350	E/G
932	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9403358	E/G
933	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9403359	E/G
934	NSF	MPS	Mathematical sciences (DMS)	Computational Mathematics	9403563	E/G
935	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9403592	E/G
936	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9403612	E/G
937	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9403743	E/G
938	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9403843	E/G
939	NSF	MPS	Mathematical sciences (DMS)	Applied Mathematics	9403890	E/G
940	NSF	SBE	International cooperative scientific activities	East Asia & Pacific	9405343	E/G
941	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9406083	E/G
942	NSF	MPS	Mathematical sciences (DMS)	Applied Mathematics	9407738	E/G
943	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9408162	E/G
944	NSF	ENG	Chemical & transport systems (CTS)	Fluid Dynamics & Hydraulics	9408939	E/G
945	NSF	ENG	Engineering education & centers (EEC)	Engineering education & centers - Other	9409190	E/G
946	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9409268	E/G
947	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9409526	E/G
948	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9409870	E/G
949	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9410091	E/G
950	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9410390	E/G
951	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9410473	E/G
952	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9410647	E/G
953	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9410683	E/G
954	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9410894	E/G
955	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9410895	E/G
956	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9411018	E/G
957	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9411528	E/G
958	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9411529	E/G
959	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9411572	E/G
960	NSF	ENG	Electrical & communications systems (ECS	Computational Engineering	9411589	E/G
961	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9411738	E/G
962	NSF	CSE	Information, robotics & intelligent systems (I	Robotics & Machine Intelligence	9411750	E/G
963	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9411759	E/G
964	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9412049	E/G
965	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9412759	E/G
966	NSF	ENG	Civil & mechanical systems (CMS)	Natural & Man-Made Hazard Mitigation	9412905	E/G
967	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9412906	E/G
968	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems & Construction Processes	9412942	E/G
969	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9413277	E/G
970	NSF	ENG	Civil & mechanical systems (CMS)	Solid Mechanics	9413372	E/G
971	NSF	ENG	Chemical & transport systems (CTS)	Combustion & Thermal Plasmas	9413549	E/G
972	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9413725	E/G
973	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9413747	E/G
974	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9413859	E/G
975	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9413942	E/G

C&B R&D Report

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
911	NSF	Mar-94	Dec-94	Alameda	CA	HELLER & CO.	IndBus		64,352	64,352	64,352	64,352	0	7
912	NSF	Sep-94	Aug-96	Washington	DC	CATHOLIC UNIVERSITY	PriEdInst		94,274	28,746	28,746	28,746	0	7
913	NSF	Dec-93	Nov-94	New York	NY	AMER SOC OF CIVIL ENG	NonprofNonE		21,542	20,654	20,654	20,654	0	7
914	NSF	Sep-94	Nov-96	Richmond	CA	CUREE	NonprofNonE		85	85	85	85	0	7
915	NSF	Apr-94	Sep-95	Reno	NV	U OF NEVADA RENO	EdInst		27,938	27,938	27,938	27,938	0	7
916	NSF	Sep-94	Aug-96	Southfield	MI	LAWRENCE TECHNICAL U	PriEdInst		136.05	40.7	40.7	40.7	0	7
917	NSF	Aug-94	Jul-96	Knoxville	TN	U OF TENNESSEE KNOXV	EdInst		49,938	49,938	49,938	49,938	0	8
918	NSF	Apr-94	Oct-94	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		10	10	10	10	0	7
919	NSF	Sep-94	Aug-96	Laramie	WY	UNIVERSITY OF WYOMING	EdInst		218,363	94,638	94,638	94,638	0	7
920	NSF	Oct-94	Jul-96	Buffalo	NY	SUNY BUFFALO	EdInst		330	211	211	211	0	7
921	NSF	Sep-94	Jul-97	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		246,161	11,042	11,042	11,042	0	7
922	NSF	Sep-94	Aug-97	Hamilton	NY	COLGATE UNIVERSITY	PriEdInst		83,862	83,862	83,862	83,862	0	7
923	NSF	Oct-94	Aug-95	Cincinnati	OH	U OF CINCINNATI	EdInst		30	30	30	30	0	5
924	NSF	Oct-94	Aug-97	Reno	NV	U OF NEVADA RENO	EdInst		167,981	167,981	167,98	167,98	0	7
925	NSF	Oct-94	Aug-96	Atlanta	GA	GA TECH RES CORP - GIT	EdInst		120	120	120	120	0	7
926	NSF	Jun-94	Nov-97	Amherst (censu	MA	U OF MASSACHUSETTS A	EdInst		149,582	149,582	149,58	149,58	0	7
927	NSF	Oct-94	Sep-96	Newark	NJ	NEW JERSEY INST OF TE	Oth		251,905	81	81	81	0	7
928	NSF	Oct-94	Aug-97	Knoxville	TN	U OF TENNESSEE KNOXV	EdInst		88,829	88,829	88,829	88,829	0	7
929	NSF	Sep-94	Aug-99	Gainesville	FL	U OF FLORIDA	EdInst		12600	2000	2000	2000	0	7
930	NSF	Jun-94	Nov-95	Mayaguez	PR	U OF PUERTO RICO MAYA	EdInst		49,553	49,553	49,553	49,553	0	7
931	NSF	May-94	Oct-95	Raleigh	NC	NORTH CAROLINA STATE	EdInst		26.3	26.3	26.3	26.3	0	7
932	NSF	Apr-94	Sep-95	State College	PA	PA ST U UNIVERSITY PAR	EdInst		52,746	52,746	52,746	52,746	0	7
933	NSF	Mar-94	Feb-95	Honolulu	HI	U OF HAWAII MANOA	EdInst		12,148	12,148	12,148	12,148	0	7
934	NSF	Aug-94	Jun-96	Houston	TX	U OF HOUSTON	EdInst		60	60	60	60	0	7
935	NSF	Oct-94	Aug-95	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		159,999	79,999	79,999	79,999	0	7
936	NSF	Sep-94	Aug-95	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	EdInst		52,303	52,303	52,303	52,303	0	7
937	NSF	Feb-94	Jan-95	Buffalo	NY	SUNY BUFFALO	EdInst		21.8	21.8	21.8	21.8	0	7
938	NSF	May-94	Sep-96	Oakland	CA	EARTHQUAKE ENG RES I	NonprofNonE		94,999	94,999	94,999	94,999	0	7
939	NSF	Jul-94	Jun-96	Evanston	IL	NORTHWESTERN UNIVER	PriEdInst		152	50	50	50	0	7
940	NSF	Aug-94	Jun-96	Boca Raton	FL	FLORIDA ATLANTIC UNIV	EdInst		19.81	19.81	19.81	19.81	0	7
941	NSF	Mar-94	Aug-95	Worcester	MA	WORCESTER POLYTECH	PriEdInst		5,039	5,039	5,039	5,039	0	7
942	NSF	Jul-94	May-96	Ithaca	NY	CORNELL UNIVERSITY-EN	PriEdInst		40,001	40,001	40,001	40,001	0	7
943	NSF	Jan-94	Dec-94	Berkeley	CA	U OF CAL BERKELEY	EdInst		10	10	10	10	0	7
944	NSF	Aug-94	Jul-97	Honolulu	HI	U OF HAWAII MANOA	EdInst		94,959	94,959	94,959	94,959	0	7
945	NSF	May-94	Sep-97	Philadelphia	PA	DREXEL UNIVERSITY	PriEdInst		2000	2000	2000	2000	0	3
948	NSF	Oct-94	Jul-97	Davis	CA	U OF CAL DAVIS	EdInst		100	100	100	100	0	7
947	NSF	Sep-94	Jul-96	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		93.5	34.27	34.27	34.27	0	7
948	NSF	Aug-94	Jul-96	Newark	DE	UNIVERSITY OF DELAWAR	EdInst		89,059	29,567	29,567	29,567	0	7
949	NSF	May-94	Apr-95	Boulder	CO	ATKINSON-NOLAND ASSO	IndBus		3	3	3	3	0	7
950	NSF	Aug-94	Dec-95	Tampa	FL	U OF SOUTH FLORIDA	EdInst		18	18	18	18	0	7
951	NSF	Sep-94	Aug-97	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		100	100	100	100	0	7
952	NSF	Sep-94	Jul-96	Norman	OK	U OF OKLAHOMA	EdInst		87.94	38,834	38,834	38,834	0	7
953	NSF	Sep-94	Jul-96	Boulder	CO	U OF COLORADO BOULDE	EdInst		90	30	30	30	0	8
954	NSF	May-94	Jan-95	El Segundo	CA	AGBBIAN ASSOCIATES	IndBus		50	50	50	50	0	6
955	NSF	Jun-94	Oct-95	Orange	CA	GEO-ENVIRONMENTAL IN	IndBus		8.87	8.87	8.87	8.87	0	7
956	NSF	May-94	Apr-95	Cleveland	OH	CASE WESTERN RESERV	PriEdInst		9.6	9.6	9.6	9.6	0	7
957	NSF	Sep-94	Aug-95	Rolla	MO	U OF MISSOURI ROLLA	EdInst		35	35	35	35	0	7
958	NSF	Apr-94	Mar-95	Fort Collins	CO	COLORADO STATE UNIVE	EdInst		1	1	1	1	0	7
959	NSF	Aug-94	Jul-95	Knoxville	TN	U OF TENNESSEE KNOXV	EdInst		45,841	45,841	45,841	45,841	0	7
960	NSF	May-94	Sep-97	Notre Dame	IN	UNIVERSITY OF NOTRE D	PriEdInst		129,914	47,804	47,804	47,804	0	7
961	NSF	Sep-94	May-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		134,467	134,467	134,47	134,47	0	7
962	NSF	Jun-94	May-95	Columbus	OH	OHIO STATE UNIV RES FD	EdInst		50	50	50	50	0	7
963	NSF	May-94	Oct-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		39.93	39.93	39.93	39.93	0	7
964	NSF	Sep-94	Jul-95	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		28.75	28.75	28.75	28.75	0	5
965	NSF	Jun-94	May-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		35,835	35,835	35,835	35,835	0	7
966	NSF	Jun-94	Oct-97	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		158,862	35,944	35,944	35,944	0	7
967	NSF	Sep-94	Jul-97	Madison	WI	U OF WISCONSIN MADISC	EdInst		180	180	180	180	0	7
968	NSF	Oct-94	Aug-96	Rapid City	SD	SD SCH OF MINES AND TE	EdInst		197,037	63,474	63,474	63,474	0	7
969	NSF	Jun-94	Nov-95	Pullman	WA	WASHINGTON STATE UNI	EdInst		4.79	4.79	4.79	4.79	0	7
970	NSF	Jan-95	Dec-97	Raleigh	NC	NORTH CAROLINA STATE	EdInst		1450	1450	1450	1450	0	7
971	NSF	Aug-94	Jul-95	Worcester	MA	WORCESTER POLYTECH	PriEdInst		101.22	101.22	101.22	101.22	0	7
972	NSF	Sep-94	Aug-97	Newark	NJ	NJIT	EdInst		448,715	448,715	448,72	448,72	0	7
973	NSF	Sep-94	Feb-96	Houghton	MI	MICH TECHNOLOGICAL U	EdInst		206,674	206,674	206,67	206,67	0	7
974	NSF	Oct-94	Sep-96	Irvine	CA	U OF CAL IRVINE	EdInst		230,068	230,068	230,07	230,07	0	7
975	NSF	Sep-94	Aug-95	Washington	DC	CATHOLIC UNIVERSITY	PriEdInst		131,167	131,167	131,17	131,17	0	7

	Agency	Bureau	Program	Project	Award Number	Award Type
976	NSF	ENG	Bioengineering & environmental systems (B	Environmental Engineering Systems	9413970	E/G
977	NSF	ENG	Civil & mechanical systems (CMS)	Siting & Geotechnical Systems	9414375	E/G
978	NSF	BIO	Molecular & cellular biosciences (MCB)	Microbial Genetics	9415295	E/G
979	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9415726	E/G
980	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9415728	E/G
981	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9415738	E/G
982	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9415955	E/G
983	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416112	E/G
984	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416151	E/G
985	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416160	E/G
986	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416171	E/G
987	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416174	E/G
988	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416175	E/G
989	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416181	E/G
990	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416183	E/G
991	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416184	E/G
992	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416232	E/G
993	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416248	E/G
994	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416262	E/G
995	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416265	E/G
996	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416266	E/G
997	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416273	E/G
998	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416274	E/G
999	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416276	E/G
1000	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416287	E/G
1001	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416354	E/G
1002	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416363	E/G
1003	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416366	E/G
1004	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416378	E/G
1005	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416380	E/G
1006	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416383	E/G
1007	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416393	E/G
1008	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416420	E/G
1009	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416424	E/G
1010	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416441	E/G
1011	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416449	E/G
1012	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416451	E/G
1013	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416457	E/G
1014	NSF	ENG	Civil & mechanical systems (CMS)	Earthquake Systems Integration	9416458	E/G
1015	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416463	E/G
1016	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416466	E/G
1017	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416469	E/G
1018	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416480	E/G
1019	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416482	E/G
1020	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416487	E/G
1021	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416499	E/G
1022	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416509	E/G
1023	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416510	E/G
1024	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416516	E/G
1025	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416524	E/G
1026	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416525	E/G
1027	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416530	E/G
1028	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416533	E/G
1029	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416759	E/G
1030	NSF	ENG	Civil & mechanical systems (CMS)	Civil & mechanical systems - Other	9416771	E/G
1031	NSF	ENG	Engineering education & centers (EEC)	Engineering Education	9420522	E/G
1032	NSF	ENG	Engineering education & centers (EEC)	Engineering Education	9420583	E/G
1033	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9421593	E/G
1034	NSF	ENG	Electrical & communications systems (ECS)	Computational Engineering	9422730	E/G
1035	NSF	EHR	Graduate education & research development (GER)		9454022	E/G
1036	NSF	ENG	Civil & mechanical systems (CMS)	Architectural & Mechanical Systems	9457288	E/G
1037	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9457305	E/G
1038	NSF	MPS	Chemistry (CHE)	Statistical & Simulations	9457365	E/G
1039	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9457604	E/G
1040	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9496181	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod #
976	NSF	Sep-94	Aug-97	Grand Forks	ND	U OF NORTH DAKOTA	EdInst		191.983	191.983	191.98	191.98	0	7
977	NSF	Jun-94	May-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		20	20	20	20	0	7
978	NSF	Jul-94	Jun-96	Athens	GA	U OF GEORGIA RES FDN I	EdInst		49.984	49.984	49.984	49.984	0	7
979	NSF	Sep-94	Jul-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		60	60	60	60	0	7
980	NSF	Aug-94	Jul-95	East Lansing	MI	MICHIGAN STATE UNIVER	EdInst		99.638	99.638	99.638	99.638	0	
981	NSF	Aug-94	Jul-96	Newark	DE	UNIVERSITY OF DELAWAR	EdInst		124.881	92.562	92.562	92.562	0	
982	NSF	Sep-94	Aug-95	Reno	NV	U OF NEVADA RENO	EdInst		46.788	46.788	46.788	46.788	0	7
983	NSF	Sep-94	Aug-95	Seattle	WA	U OF WASHINGTON	EdInst		65	65	65	65	0	7
984	NSF	Sep-94	Aug-95	Cleveland	OH	CASE WESTERN RESERV	PriEdInst		49.046	49.046	49.046	49.046	0	7
985	NSF	Sep-94	Aug-95	Irvine	CA	U OF CAL IRVINE	EdInst		40	40	40	40	0	7
986	NSF	Sep-94	Aug-95	Blacksburg	VA	VA POLYTECHNIC INST &	EdInst		65	65	65	65	0	7
987	NSF	Sep-94	Aug-95	Pasadena	CA	CALIFORNIA INST OF TEC	PriEdInst		35	35	35	35	0	7
988	NSF	Sep-94	Aug-95	Lutherville	MD	DYNAMIC IN SITU GEOTE	IndBus		78	52	52	52	0	7
989	NSF	Aug-94	Jul-95	Oakland	CA	ASSN OF BAY AREA GOV	StaLocGov		65	65	65	65	0	7
990	NSF	Sep-94	Jul-95	San Francisco	CA	BUILDING SYSTEMS DEV	IndBus		90.161	90.161	90.161	90.161	0	7
991	NSF	Sep-94	Jul-95	Ann Arbor	MI	UNIVERSITY OF MICHIGAN	EdInst		69.945	69.945	69.945	69.945	0	7
992	NSF	Sep-94	Aug-95	San Francisco	CA	EQE INTERNATIONAL INC	IndBus		50	50	50	50	0	7
993	NSF	Sep-94	Aug-95	Troy	NY	RENSSELAER POLYTECHN	PriEdInst		60	60	60	60	0	7
994	NSF	Sep-94	Aug-95	Knoxville	TN	U OF TENNESSEE KNOXV	EdInst		70	70	70	70	0	7
995	NSF	Sep-94	Aug-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		80	80	80	80	0	7
996	NSF	Aug-94	Jul-95	Bethlehem	PA	LEHIGH UNIVERSITY	PriEdInst		100.067	100.067	100.07	100.07	0	7
997	NSF	Oct-94	Sep-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		74.205	74.205	74.205	74.205	0	7
998	NSF	Sep-94	Jul-95	Bethlehem	PA	LEHIGH UNIVERSITY	PriEdInst		52.137	52.137	52.137	52.137	0	7
999	NSF	Sep-94	Aug-95	San Diego	CA	U OF CAL SAN DIEGO	EdInst		60	60	50	60	0	7
1000	NSF	Sep-94	Aug-95	Austin	TX	U OF TEXAS AUSTIN	EdInst		70	70	70	70	0	7
1001	NSF	Sep-94	Aug-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		60	60	60	60	0	7
1002	NSF	Sep-94	Aug-95	Minneapolis	MN	U OF MINNESOTA-TWIN C	EdInst		65	65	65	65	0	7
1003	NSF	Sep-94	Aug-95	Los Angeles	CA	DAMES & MOORE LOS AN	IndBus		60	60	60	60	0	7
1004	NSF	Oct-94	Aug-95	Provo	UT	BRIGHAM YOUNG UNIVER	PriEdInst		60	60	60	60	0	7
1005	NSF	Sep-94	Aug-95	Northridge (Nor	CA	UNIV CORP NORTHRIDGE	EdInst		65.116	65.116	65.116	65.116	0	7
1006	NSF	Sep-94	Aug-95	Los Angeles	CA	U OF CAL LOS ANGELES	EdInst		60	60	60	60	0	6
1007	NSF	Sep-94	Aug-95	San Francisco	CA	H J DEGENKOLB ASSOCS	IndBus		11.942	11.942	11.942	11.942	0	7
1008	NSF	Aug-94	Jul-95	Palo Alto	CA	STANFORD UNIVERSITY	PriEdInst		82.159	82.159	82.159	82.159	0	7
1009	NSF	Oct-94	Sep-95	Sacramento	CA	DAN	StaLocGov		52.515	52.515	52.515	52.515	0	7
1010	NSF	Aug-94	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		57.248	57.248	57.248	57.248	0	7
1011	NSF	Sep-94	Aug-95	Northbrook	IL	WISS JANNEY ELSTNER&	IndBus		15	15	15	15	0	7
1012	NSF	Oct-94	Sep-95	Cowan Heights	CA	WCC	IndBus		65.366	65.366	65.366	65.366	0	7
1013	NSF	Sep-94	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		100	100	100	100	0	7
1014	NSF	Sep-94	Aug-95	Atlanta	GA	GA TECH RES CORP - GIT	EdInst		87.464	87.464	87.464	87.464	0	7
1015	NSF	Sep-94	Aug-95	Rolla	MO	U OF MISSOURI ROLLA	EdInst		83.346	83.346	83.346	83.346	0	7
1016	NSF	Sep-94	Aug-95	Seattle	WA	U OF WASHINGTON	EdInst		54.999	54.999	54.999	54.999	0	7
1017	NSF	Sep-94	Aug-95	Medford	MA	TUFTS UNIVERSITY	PriEdInst		60	60	60	60	0	7
1018	NSF	Sep-94	Aug-95	Buffalo	NY	SUNY BUFFALO	EdInst		80	80	80	80	0	7
1019	NSF	Sep-94	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		49.058	49.058	49.058	49.058	0	7
1020	NSF	Sep-94	Aug-95	Potsdam	NY	CLARKSON UNIVERSITY	PriEdInst		60	60	60	60	0	7
1021	NSF	Aug-94	Jul-95	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		79.257	79.257	79.257	79.257	0	6
1022	NSF	Sep-94	Aug-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		50.155	50.155	50.155	50.155	0	7
1023	NSF	Oct-94	Aug-95	Berkeley	CA	ALAN KRIPP & ASSOC INC	IndBus		50.468	50.468	50.468	50.468	0	7
1024	NSF	Aug-94	Jul-95	Berkeley	CA	U OF CAL BERKELEY	EdInst		70	70	70	70	0	7
1025	NSF	Sep-94	Aug-95	San Luis Obisp	CA	CAL POLY ST UNIVERSITY	EdInst		57.997	57.997	57.997	57.997	0	7
1026	NSF	Sep-94	Aug-95	Austin	TX	U OF TEXAS AUSTIN	EdInst		70.746	70.746	70.746	70.746	0	7
1027	NSF	Sep-94	Jul-95	Oakland	CA	SEISMIC ISOLATION ENG	IndBus		46.278	46.278	46.278	46.278	0	7
1028	NSF	Sep-94	Aug-95	San Francisco	CA	RUTHERFORD AND CHEK	IndBus		17.315	17.315	17.315	17.315	0	7
1029	NSF	Sep-94	Aug-95	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		80	80	80	80	0	7
1030	NSF	Sep-94	Aug-95	Los Angeles	CA	U OF SOUTHERN CALIFOR	PriEdInst		60	60	60	60	0	7
1031	NSF	Oct-94	Sep-97	Atlanta	GA	GA TECH RES CORP - GIT	EdInst		300	220.018	220.02	220.02	0	7
1032	NSF	Oct-94	Aug-96	Baltimore	MD	JOHNS HOPKINS UNIVER	PriEdInst		310.5	98.436	98.436	98.436	0	7
1033	NSF	Oct-94	Sep-98	Austin	TX	U OF TEXAS AUSTIN	EdInst		82.062	52.5	52.5	52.5	0	7
1034	NSF	Oct-94	Sep-97	Urbana	IL	U OF ILL URBANA-CHAMP	EdInst		1268.4	422.801	422.8	422.8	0	6
1035	NSF	Sep-94	Aug-98	College Park	MD	U OF MD COLLEGE PARK	EdInst		562.5	112.5	112.5	112.5	0	7
1036	NSF	Sep-94	Jul-98	Ames	IA	IOWA STATE UNIVERSITY	EdInst		275	25	25	25	0	7
1037	NSF	Aug-94	Jun-98	New York	NY	COLUMBIA UNIVERSITY	PriEdInst		275	25	25	25	0	7
1038	NSF	Aug-94	Jun-98	Davis	CA	U OF CAL DAVIS	EdInst		312.5	62.5	62.5	62.5	0	7
1039	NSF	Aug-94	Jul-98	Las Cruces	NM	NEW MEXICO ST UNIVER	EdInst		275	25	25	25	0	7
1040	NSF	Apr-94	Sep-94	San Diego	CA	U OF CAL SAN DIEGO	EdInst		13.532	47.846	47.846	47.846	0	7



	Agency	Bureau	Program	Project	Award Number	Award Type
1041	NSF	ENG	Civil & mechanical systems (CMS)	Structural Systems	9496280	E/G
1042	NSF	ENG	Civil & mechanical systems (CMS)	Large Structural & Building Systems	9496285	E/G

	Agency	Start Date	End Date	Place of Performance	PP State	Performer Name	Perf Type	Perf Parent	Total Award Amount	Average Annual Funding	FY Total Amt	FY Fed Amt	FY Non-Fed Amt	Prod. #
1041	NSF	Sep-94	Feb-95	Lafayette	IN	PURDUE UNIV RESEARCH	EdInst		12.7	92.8	92.8	92.8	0	7
1042	NSF	Sep-94	Apr-96	Pullman	WA	WASHINGTON STATE UNI	EdInst		54.2					7

*Appendix D:*  
*Sample Award Abstracts*

Two pages of sample Award Abstracts have been included in this section to provide the reader with a sense of the kind of information available in RaDiUS. Because the complete printout of Award Abstracts is several hundred pages long, this abbreviated version has been supplied. The actual Abstracts range in length from one line to ten pages, but the majority are similar to those listed below. Readers interested in obtaining project abstracts for any particular project should consult the contacts listed in Appendix B for availability information.

8857080

**SHORT DESCR: PRESIDENTIAL YOUNG INVESTIGATOR AWARD :: LONG DESCR:** Base Isolation of structures and systems is an attractive strategy to mitigate the effects of earthquakes. Implementation of the strategy, on a limited basis, has been achieved in several countries world- wide. Many issues, which require considerable research, remain unresolved and are barriers to further accelerated implementation. This research project address many of these issues in both conventional structures and for bridges. This includes soil-structure interaction effects, materials behavior under seismic conditions and actual performance of structures on a shaker table simulator. The research will provide design and analysis methodologies to aid in accelerated implementation of base isolation. This research grant provides the base support to Dr. Constantinou for a Presidential Young Investigator Award. ::

8857749

**SHORT DESCR: PRESIDENTIAL YOUNG INVESTIGATORS AWARD :: LONG DESCR:** The research will involve the analysis and design of high accuracy mechanical systems. Such systems include machines to perform finishing tasks on construction sites such as: 1) Wallbots, robots to assemble steel track and stud walls; and 2) Scaffbot, robot to perform maintenance and assembly tasks on vertical exterior surfaces of ships and building. Also included are machines to advance the state of the art of precision surveying and navigation, such as: 1) Acall, a machine to calibrate accelerometers, for the National Bureau of Standards, to achieve accuracies of one part per million. This type of accuracy is needed to allow slow moving vehicles to use inertial systems to navigate for extended periods of time. 2) Molecular Measuring Machine, a machine being designed with the National Bureau of Standards with the capability to measure the position of atoms on specimens centimeters in diameter. ::

8858549

**SHORT DESCR: PRESIDENTIAL YOUNG INVESTIGATOR AWARD :: LONG DESCR:** Under this Presidential Young Investigator Award (PYI), the following studies will be pursued: (1) Dynamic response of linear and nonlinear secondary systems, (2) Reliability of systems with uncertain parameters, (3) Identification and optimization of complex systems, and (4) Vibration reduction of dynamic systems These studies are aiming at improving the understanding of the dynamic behavior of complex structures with subsystem components and the seismic design of such structures. This project is initiated in FY 88 and will run for five years. ::

- 8913129      SHORT DESCR: CONFERENCE ON FIRESAFETY DESIGN PRACTICES IN THE 21ST CENTURY TO BE HELD AT WORCESTER POLYTECHNIC INSTITUTE , WORCESTER MA. :: LONG DESCR: This award is to support a 2 1/2 day conference on fire engineering and design considerations. The issues to be discussed are barriers to institutional, political, and economic with respect to the transfer of recent research results to designers and regulatory bodies. Proceedings will be published. ::
- 8914008      SHORT DESCR: JOINT U.S.-ITALY-YUGOSLAVIA RESEARCH ON EVALUATION AND RETROFIT OF MASONRY-INFILLED REINFORCED CONCRETE FRAMES :: LONG DESCR: This ia a joint project between the University of Colorado and the consulting engineering firm of Atkinson-Noland and Associates, Inc. of Boulder, Colorado, in cooperation with engineers from Italy and Yugoslavia. The project will investigate the lateral load resistance of masonry-infilled reinforced concrete structures to determine the feasibility of using the method to reinforce existing reinforced concrete buildings and to evaluate the safety of existing buildings. ::
- 8921586      SHORT DESCR: CONTROL AND PERFORMANCE OF CENTRALIZED HEATING AND COOLING SYSTEMS :: LONG DESCR: The objective of the proposed research is to develop techniques that would allow a building equipped with an energy management system to be operated in a cost efficient manner. These techniques would be implemented in the energy management system and automatically utilize operating data to perform a number of important functions including on-line optimal control, performance monitoring and fault detection. Methodologies for optimal control strategies would be developed to allow the plant to operate at minimum cost. These methodologies would involve development of simulation models for the plant and the components, with parameter estimation techniques employed that utilize operating data. Fault detection would allow assessment of changes in plant performance and identification of the sources of the change. Both analytical and experimental approaches will be employed to test the validity of the methodologies. The results of the research will be algorithms that can be directly incorporated in energy management systems. ::





