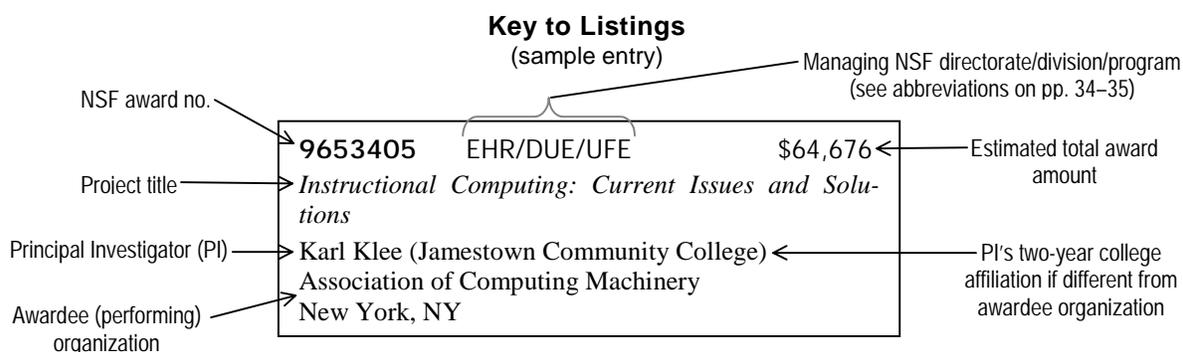


## Appendix

### NSF AWARDS SUPPORTING TWO-YEAR COLLEGES FY1997 – FY1999

The 392 awards listed below, which have a combined value of over \$202 million, form the basis of this book's estimates of NSF's support for two-year colleges during fiscal years 1997–1999. Also included in the estimates, but omitted from the list below, are five awards that supported NSF program officers working at the agency temporarily on Intergovernmental Personnel Act (IPA) assignments, and three awards to contractors that provided proposal-processing services for the ATE program. Awards are listed in order by increasing NSF award number. Additional information about the awards can be found in NSF's Online Award Abstracts at <<http://www.fastlane.nsf.gov/a6/A6AwardSearch.htm>>.



**9406826** CISE/ANIR/NI \$90,150  
*NSFNET Connection for the Overhill Ad hoc Consortium*  
 Paul Barker  
 Hiwassee College  
 Madisonville, TN

**9407612** BIO/MCB/MG \$119,904  
*Ty Insertional Mutagenesis in Yeast*  
 Molly Mastrangelo  
 Allegany Community College  
 Cumberland, MD

**9417390** CISE/EIA/RI \$1,380,523  
*A Cooperative Learning Environment That Fosters the Pursuit of Scientific Careers for American Indians*  
 Ted Wetherbee  
 Fond du Lac Tribal College  
 Cloquet, MN

**9420655** MPS/CHE/BP \$147,100  
*Chemical and Physical Properties of 2-Aminopyrroles*  
 Michael De Rosa  
 Penn State Delaware County  
 Media, PA

**9420850** CISE/ANIR/NI \$24,960  
*Enhancing Instruction Through the Use of the Internet*  
 James McAndrew  
 Luzerne County Community College  
 Nanticoke, PA

**9424103** BIO/DBI/REU \$176,388  
*REU Site for Biotechnology*  
 Bruce Jackson  
 Massachusetts Bay Community College  
 Wellesley, MA

**9450160** EHR/DUE/ATE \$1,185,405  
*The Two-Year College in the Twenty-First Century:  
Breaking Down Barriers*  
Mary Beth Monroe  
American Association of Physics Teachers  
College Park, MD

**9450369** EHR/HRD/LSAMP \$5,280,560  
*All-Nations Alliance for American Indians*  
Joseph McDonald  
Salish Kootenai College  
Pablo, MT

**9452790** EHR/ESIE/IMD \$475,000  
*West Hawaii Explorations Academy: A Center for  
Integrative Secondary Curriculum Development*  
William Woerner  
Hawaii Department of Education  
Honolulu, HI

**9453180** EHR/DUE/ATE \$385,680  
*Physics Education in the Two-Year Colleges: A  
Neglected Resource*  
Michael Neuschatz  
American Institute of Physics  
College Park, MD

**9454620** EHR/DUE/ATE \$146,738  
*A Revision of Technical Physics*  
Robert Eshelman  
Henry Ford Community College  
Dearborn, MI

**9454643** EHR/DUE/ATE \$1,766,637  
*Southwest Center for Advanced Technological  
Education*  
Robert Musgrove  
Texas State Technical College, Sweetwater  
Sweetwater, TX

**9455561** EHR/DUE/CCD \$1,780,000  
*Activity Based Physics: Curricula, Computer Tools,  
and Apparatus for Introductory Physics Courses*  
Priscilla Laws  
Dickinson College  
Carlisle, PA

**9455918** EHR/DUE/CCD \$2,715,000  
*ChemLinks Coalition: Making Chemical Connections*  
Brock Spencer  
Beloit College  
Beloit, WI

**9455920** EHR/DUE/CCD \$1,525,000  
*A Workshop Chemistry Curriculum*  
David Gosser  
CUNY City College  
New York, NY

**9455924** EHR/DUE/CCD \$2,865,000  
*Sweeping Change in Manageable Units: A Modular  
Approach for Chemistry Curriculum Reform*  
C. Bradley Moore  
University of California, Berkeley  
Berkeley, CA

**9455928** EHR/DUE/CCD \$3,749,591  
*Establishing New Traditions: Revitalizing the  
Curriculum*  
John Moore  
University of Wisconsin, Madison  
Madison, WI

**950533** EHR/HRD/MIE \$10,960,977  
*Woksape (Knowledge)*  
Zofia Gagnon  
Oglala Lakota College  
Kyle, SD

**9552464** EHR/DUE/CCD \$2,196,693  
*Middle Atlantic Consortium for Mathematics and Its  
Applications Throughout the Curriculum*  
Dennis DeTurck  
University of Pennsylvania  
Philadelphia, PA

**9552465** EHR/DUE/CCD \$4,000,000  
*Mathematics and Its Applications in Engineering and  
Science: Building the Links*  
Mark Holmes  
Rensselaer Polytechnic Institute  
Troy, NY

**9552897** EHR/ESIE/YS \$166,978  
*Young Investigators Summer Institute on Science and Agriculture*

Clyde Opliger (Ohio State University Agricultural Technical Institute)  
Ohio State University Research Foundation  
Columbus, OH

**9553500** EHR/ESIE/YS \$100,806  
*Young Scholars Field Research Institute*

Janet McMillen  
Prince George's Community College  
Largo, MD

**9553538** EHR/ESIE/YS \$104,672  
*Science and Mathematics are Right Together (SMART)*

John Morrell  
Atlanta Metropolitan College  
Atlanta, GA

**9553662** EHR/DUE/ATE \$694,941  
*NASA-CCITT Project in Remote Sensing, Image Processing, and Geographic Information Systems*

Patricia Cunniff  
Prince George's Community College  
Largo, MD

**9553664** EHR/DUE/ATE \$1,344,676  
*Associate Degree for Manufacturing Technicians*

Arnold Packer  
Johns Hopkins University  
Baltimore, MD

**9553680** EHR/DUE/ATE \$600,000  
*Rural Alaskan Environmental Education Program*

John Carnegie  
University of Alaska Southeast, Sitka Campus  
Sitka, AK

**9553696** EHR/DUE/ATE \$267,965  
*Integrating New Visions in Environmental Sciences and Technology*

Catharine Almquist  
Trident Technical College  
Charleston, SC

**9553709** EHR/DUE/ATE \$139,450  
*Collaborative Model for Technician Education Through Interactive Technology*

M. Carolyn Girardeau  
North Carolina State Board of Community Colleges  
Raleigh, NC

**9553716** EHR/DUE/ATE \$1,550,000  
*Machine Tool Advanced Skills Technology Educational Resources (MASTER)*

Wallace Pelton  
Texas State Technical College, Waco  
Waco, TX

**9553727** EHR/DUE/ATE \$3,017,054  
*NorthWest Center for Emerging Technologies*

Neil Evans  
Bellevue Community College  
Bellevue, WA

**9553740** EHR/DUE/ATE \$1,419,128  
*South Carolina Advanced Technological Education Exemplary Faculty Project*

Lynn Mack  
S.C. State Board for Technical and Comprehensive Education  
Columbia, SC

**9553749** EHR/ESIE/ATE \$2,966,472  
*New Jersey Center for Advanced Technological Education*

Jack Waintraub  
Middlesex County College  
Edison, NJ

**9553760** EHR/DUE/ATE \$2,998,443  
*Northwest Center for Sustainable Resources*

Wynn Cudmore  
Chemeketa Community College  
Salem, OR

**9553765** EHR/DUE/ATE \$234,194  
*Development of an Advanced Applied Technological Mathematics Course via a Partnership*

Alfred Patrick  
Adirondack Community College  
Glens Falls, NY

**9553767** EHR/DUE/ATE \$548,260  
*Defining the Emerging Role of the Technologist in a Computer-Aided-Engineering Environment*  
Robert Simoneau  
Keene State College  
Keene, NH

**9553789** EHR/DUE/CETP \$3,460,050  
*Virginia Collaborative for Excellence in the Preparation of Teachers*  
Reuben Farley  
Virginia Commonwealth University  
Richmond, VA

**9554188** EHR/HRD/AWGSEM \$686,970  
*Learning Mathematics Through Transactional Writing*  
Suzanne Austin  
Miami-Dade Community College  
Miami, FL

**9554344** EHR/REC/NIE \$832,006  
*Navajo Learning Network*  
David Basham  
Diné College  
Tsaile, AZ

**9554467** EHR/ESR/RSI \$10,336,718  
*High Plains Rural Systemic Initiative*  
Gerald Monette  
Turtle Mountain Community College  
Belcourt, ND

**9554672** EHR/DUE/UFE \$119,954  
*Animations, Portfolios, and CD-ROM Technology in Science and Calculus*  
Patricia Wilkinson  
CUNY Borough of Manhattan Community College  
New York, NY

**9554683** EHR/DUE/UFE \$525,000  
*Two-Year College Physics Workshops*  
Curtis Hieggelke  
Joliet Junior College  
Joliet, IL

**9555401** EHR/DUE/CCD \$2,799,820  
*Long Island Consortium for Mathematical Sciences Throughout the Curriculum*  
Alan Tucker  
SUNY at Stony Brook  
Stony Brook, NY

**9555605** EHR/DUE/CCD \$2,425,000  
*Molecular Science*  
Orville Chapman  
University of California, Los Angeles  
Los Angeles, CA

**9555646** EHR/ESIE/TE \$1,273,484  
*Transition to the Workplace Through Manufacturing Experiences*  
Sandra Harpole  
Mississippi State University  
Mississippi State, MS

**9555733** EHR/HRD/AWGSEM \$508,981  
*Women's Images of Science and Engineering*  
Robin McCord  
Chandler-Gilbert Community College  
Chandler, AZ

**9602298** OD/OIA/ARF \$118,644  
*Consolidation and Renovation of Research Facilities at the Transmountain Campus of El Paso Community College*  
Adena Loston  
El Paso Community College  
El Paso, TX

**9602345** EHR/DUE/ATE \$500,000  
*Pac-Tec: Pacific Technological Education Project*  
Charlotte Behm  
Mission College  
Santa Clara, CA

**9602349** EHR/DUE/ATE \$421,318  
*Project TIE: Training for Industry Education*  
Mary Jane Willis  
Albuquerque Technical Vocational Institute  
Albuquerque, NM

**9602351** EHR/DUE/ATE \$450,000  
*A Partnership for Computer-Based Curriculum Development in Atmospheric Technology*  
Melanie Wetzel  
University of Nevada Desert Research Institute  
Reno, NV

**9602352** EHR/DUE/ATE \$399,972  
*Business Alliance for Advanced Technological Education*  
Peter Joyce  
National Alliance of Business  
Washington, DC

**9602355** EHR/DUE/ATE \$1,348,391  
*Midwest Consortium for Advanced Technology Education*  
Don Gentry  
Purdue University  
West Lafayette, IN

**9602360** EHR/DUE/ATE \$221,174  
*Materials Aspects of Manufacturing Technology Institute*  
Thomas Stoebe  
University of Washington  
Seattle, WA

**9602365** EHR/DUE/ATE \$600,000  
*Faculty Associates in Science and Technology Leadership Corps Project for Enhancing Environmental Technology Education*  
Paul Dickinson  
Partnership for Environmental Technology Education  
Pleasanton, CA

**9602369** EHR/DUE/ATE \$639,625  
*Technology Instruction for the 21st Century--Phase II*  
Bernard Mohr  
CUNY Queensborough Community College  
New York, NY

**9602370** EHR/DUE/ATE \$673,705  
*North Central Collaboration for Education in NDE/NDT*  
Lester Schmerr  
Iowa State University  
Ames, IA

**9602373** EHR/DUE/ATE \$2,713,446  
*Maricopa Advanced Technology Education Center*  
Alfredo de los Santos  
Maricopa Community College District Office  
Tempe, AZ

**9602386** EHR/DUE/ATE \$353,235  
*MMATE 2000: Maricopa Mathematics Advanced Technology Education 2000*  
Alan Jacobs  
Maricopa Community College District Office  
Tempe, AZ

**9602390** EHR/DUE/ATE \$600,000  
*An Innovative Approach for Advanced Technological Learning in Distinctive Manufacturing*  
Rick Allison  
Oklahoma State University, Okmulgee  
Okmulgee, OK

**9602397** EHR/DUE/ATE \$299,694  
*Faculty Enhancement and Curriculum Development Activities to Improve Advanced Technology Education--Phase II*  
John Tice  
Wytheville Community College  
Wytheville, VA

**9602401** EHR/DUE/ATE \$449,594  
*South East Advanced Technological Education Consortium for Communications Technology (SEATEC)*  
Sydney Rogers  
Nashville State Technical Institute  
Nashville, TN

**9602408** EHR/DUE/ATE \$614,684  
*Earth and Space Science Technological Education Project*  
Edward Geary  
Geological Society of America  
Boulder, CO

**9602431** EHR/DUE/ATE \$1,200,000  
*Toledo Technology Academy*  
Lionel Sully  
Edison Industrial Systems Center  
Toledo, OH

**9602433** EHR/DUE/ATE \$400,000  
*Telecommunications and Networking Engineering  
Technology Education*

Gary Mullett  
Springfield Technical Community College  
Springfield, MA

**9602437** EHR/DUE/ATE \$1,098,276  
*Advanced Technological Education in Chemical  
Technology*

Fritz Kryman  
University of Cincinnati  
Cincinnati, OH

**9602440** EHR/DUE/ATE \$2,100,000  
*South Carolina Advanced Technological Education  
Center*

Elaine Craft  
S.C. State Board for Technical and Comprehensive  
Education  
Columbia, SC

**9602443** EHR/DUE/ATE \$210,081  
*Chicago Chemical Laboratory Technology Education  
Partnership*

Donald Soucek  
City Colleges of Chicago Harry S Truman College  
Chicago, IL

**9602450** EHR/DUE/ATE \$450,000  
*LIGASE: Long Island Group About Science  
Education*

R. David Bynum  
SUNY at Stony Brook  
Stony Brook, NY

**9602457** EHR/DUE/ATE \$608,756  
*Technological Education for Advanced  
Manufacturing*

Frederick Schoenig  
Cleveland State University  
Cleveland, OH

**9602459** EHR/DUE/ATE \$239,912  
*Improving Science and Technology Education at  
Community Colleges*

Rod Risley  
Phi Theta Kappa Headquarters  
Jackson, MS

**9604760** BIO/DBI/IID \$242,866  
*Biological Equipment to Improve Undergraduate  
Research at El Paso Community College*

Maria Alvarez  
El Paso County Community College  
El Paso, TX

**9613949** CISE/ANIR/NI \$90,000  
*Native American Community College Multi-Location  
Internet Connection Project*

Gregory Jackson  
Utah Valley State College  
Orem, UT

**9613955** CISE/ANIR/NI \$90,000  
*Utah Valley State College Network (UVNET) Wire-  
less Internet Connections*

Gregory Jackson  
Utah Valley State College  
Orem, UT

**9616877** CISE/ANIR/NI \$20,000  
*Connections to the Internet*

Ronnie Stephens  
Lawson State Community College  
Birmingham, AL

**9616884** CISE/ANIR/NI \$20,000  
*Connections to the Internet*

David Frech  
Palm Beach Community College  
Lake Worth, FL

**9616906** CISE/ANIR/NI \$30,000  
*Connection of Passaic County Community College to  
the Internet*

Robert Mondelli  
Passaic County Community College  
Paterson, NJ

**9616985** CISE/ANIR/NI \$22,735  
*Connection to OARnet and Internet*

D. James Turner  
North Central Technical College  
Mansfield, OH

**9617019** CISE/ANIR/NI \$20,000  
*Internet Connection*

Karl Smith  
Wallace Community College, Selma  
Selma, AL

**9617033** CISE/ANIR/NI \$20,000  
*Internet Connection*  
 Judith Icklan  
 Ocean County College  
 Toms River, NJ

**9617130** CISE/ANIR/NI \$16,471  
*Connecting to the Internet*  
 Tom Erwin  
 Butler County Community College  
 El Dorado, KS

**9617131** CISE/ANIR/NI \$19,600  
*Campus-Wide Internet Access*  
 Bing Inocencio  
 Los Angeles Pierce College  
 Woodland Hills, CA

**9617133** CISE/ANIR/NI \$17,650  
*Connection of Frederick Community College to IISNET and NSFNET*  
 Richard Yankosky  
 Frederick Community College  
 Frederick, MD

**9617136** CISE/ANIR/NI \$19,900  
*Internet Connection*  
 Thomas Tacke  
 Presentation College  
 Aberdeen, SD

**9617958** CISE/ANIR/NI \$20,000  
*Connecting White Pines College to the Internet*  
 Mary Scerra  
 White Pines College  
 Chester, NH

**9625557** ENG/ECS/IS \$229,267  
*Interactive Learning in Noisy and Changing Environments*  
 Anthony Kuh (University of Hawaii Honolulu Community College)  
 University of Hawaii, Manoa  
 Honolulu, HI

**9626809** EHR/ESIE/IMD \$1,573,220  
*Technology for All Americans--Phase II*  
 William Dugger  
 International Technology Education Association  
 Reston, VA

**9628036** EHR/REC/RA \$944,629  
*Addressing National Needs for Skilled Technical Degree Graduates*  
 Jeanne Diesen  
 Indian River Community College  
 Fort Pierce, FL

**9634034** EHR/ESIE/TE \$1,071,475  
*Changing the High School System: Implementing the Interactive Mathematics Program in Arizona*  
 Linda Jaslow  
 Maricopa Community College District Office  
 Tempe, AZ

**9634081** CISE/ANIR/NI \$20,000  
*Connection to the Internet*  
 Kathie Munn  
 Gogebic Community College  
 Ironwood, MI

**9653224** EHR/DUE/CCD \$99,799  
*Revitalizing Classroom Teaching and Learning: A Beginning for Two-Year College Mathematics*  
 Elizabeth Higgins  
 Greenville Technical College  
 Greenville, SC

**9653228** EHR/DUE/CCD \$66,360  
*SPIRAL Physics Active Learning Workbooks*  
 Paul D'Alessandris  
 Monroe Community College  
 Rochester, NY

**9653272** EHR/DUE/CCD \$100,000  
*A Cost-Effective Method for Production and Internet Distribution of Computer-Generated Multimedia for Chemistry and Biology Courses*  
 Harry Ungar  
 Cabrillo College  
 Aptos, CA

**9653367** EHR/DUE/UFE \$98,600  
*New Mexico Initiative for Mathematics Reform*  
 George Pletsch  
 Albuquerque Technical Vocational Institute  
 Albuquerque, NM

**9653389** EHR/DUE/UFE \$84,500  
*Instrumentation Workshop for Two-Year College Chemistry Faculty*  
Richard Jones  
Sinclair Community College  
Dayton, OH

**9653405** EHR/DUE/UFE \$64,676  
*Instructional Computing: Current Issues and Solutions*  
Karl Klee (Jamestown Community College)  
Association of Computing Machinery  
New York, NY

**9653429** EHR/DUE/UFE \$100,000  
*Industry-Education Conference on Workforce Development for the U.S. Semiconductor Industry*  
David Hata  
Portland Community College  
Portland, OR

**9653441** EHR/DUE/UFE \$65,759  
*Enhancing Undergraduate Psychology: A Program for Faculty from Two-Year and Small Four-Year Colleges*  
Sherry Kinslow  
Prince George's Community College  
Largo, MD

**9653670** EHR/DUE/CCD \$200,000  
*A Parallel College to Pilot Test Institution-Wide Reform in Science, Mathematics, and Engineering Technology Education*  
Ned Sifferlen  
Sinclair Community College  
Dayton, OH

**9653672** EHR/DUE/CCD \$197,315  
*Cross-Discipline Integration in Science, Mathematics, Engineering, and Technology*  
Laura Precedo  
Broward Community College  
Fort Lauderdale, FL

**9653715** EHR/DUE/CCD \$199,352  
*Reform in Science, Mathematics, and Engineering Technology Education*  
Louise Squitieri  
CUNY New York City Technical College  
Brooklyn, NY

**9702044** EHR/DUE/ATE \$84,427  
*Forging Connections Between Business, Education, and Government for Strengthening Technological Skills Among Urban Students*  
Nancy DeSombre  
City Colleges of Chicago Harold Washington College  
Chicago, IL

**9710273** EHR/HRD/AWGSEM \$99,996  
*Portfolios to Increase the Number of Women in Mathematics*  
Patricia Wilkinson  
CUNY Borough of Manhattan Community College  
New York, NY

**9710287** CISE/ANIR/NI \$20,000  
*Connection to OARnet and Internet*  
Douglas Boyer  
Marion Technical College  
Marion, OH

**9710334** CISE/ANIR/NI \$16,950  
*Connections to the Internet*  
Howard Bocher  
Cambria County Area Community College  
Johnstown, PA

**9710962** CISE/ANIR/NI \$20,000  
*Internet Connection*  
Marcella Garus  
Villa Maria College of Buffalo  
Buffalo, NY

**9711504** EHR/HRD/LSAMP \$249,986  
*Bridges to Computer and Information Science Careers*  
Anthony Beckman  
Houston Community College  
Houston, TX

**9713867** EHR/DUE/ATE \$41,250  
*Travel Support for U.S. Mathematicians Attending the AMS/LMS/SAMS International Meeting in Pretoria, South Africa*  
Samuel Rankin  
American Mathematical Society  
Providence, RI

**9713868** EHR/DUE/ATE \$484,058  
*Strengthening the Community College Network for Science, Mathematics, Engineering, and Technology Education*  
Lynn Barnett  
American Association of Community Colleges  
Washington, DC

**9713869** EHR/DUE/ATE \$187,459  
*Using Case Studies to Strengthen Mathematics in ATE Programs*  
Susan Forman  
CUNY Bronx Community College  
Bronx, NY

**9714424** EHR/DUE/ATE \$2,000,000  
*National Center of Excellence for Advanced Manufacturing Education*  
David Harrison  
Sinclair Community College  
Dayton, OH

**9714425** EHR/DUE/ATE \$2,000,000  
*Advanced Technology Environmental Education Center*  
Ellen Kabat Lensch  
Hazardous Materials Training and Research Center  
Cedar Rapids, IA

**9714435** EHR/DUE/ATE \$1,253,697  
*Southwest Center for Advanced Technological Education*  
Frank Wright  
Texas State Technical College, Sweetwater  
Sweetwater, TX

**9714489** EHR/DGE/PFSMETE \$102,000  
*NSF Postdoctoral Fellowship in Science, Mathematics, Engineering, and Technology Education*  
Beth Hufnagel (Anne Arundel Community College)  
Arnold, MD

**9714637** EHR/HRD/AWGSEM \$475,789  
*Gender Balanced Education: A Professional Development Program for Educators Counseling Girls in Virginia*  
Mary Sandy (Southwest Virginia Community College)  
Virginia Space Grant Consortium  
Hampton, VA

**9714792** EHR/HRD/AWGSEM \$818,277  
*Action-WISE Program for Encouraging Women and Girls in Science, Engineering, and Mathematics*  
John Marks  
Muskingum Area Technical College  
Zanesville, OH

**9722799** MPS/DMR/MT \$129,528  
*Symmetry Analysis of Domains: Magnetic and Non-Magnetic Subperiodic Groups*  
Daniel Litvin  
Penn State Berks  
Reading, PA

**9725114** EHR/HRD/PAESMEM \$10,000  
*Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring*  
Phillip Huebner  
Oglala Lakota College  
Kyle, SD

**9727876** ENG/EEC/EE \$200,000  
*Regional Center for Workforce Education*  
Ann Diehl  
SUNY at Farmingdale  
Farmingdale, NY

**9727884** EHR/DUE/CCD \$15,792  
*Shaping the Future: New Expectations for Undergraduate Education in Science, Mathematics, Engineering, and Technology*  
Stephen Godomsky  
University of Maine at Farmington  
Farmington, ME

**9728983** GEO/ATM/AC \$270,428  
*Mineral Dust and Radionuclides Over the North Atlantic*  
Richard Arimoto (New Mexico State University at Carlsbad)  
New Mexico State University  
Las Cruces, NM

**9729620** CISE/ANIR/NI \$117,000  
*Rural Access to High Bandwidth Internet Connectivity Utilizing RF Technology*  
Larry Brown  
Andrew College  
Cuthbert, GA

**9729704** CISE/ANIR/NI \$13,580  
*Connections to the Internet*  
 Mark Whigham  
 J. F. Drake State Technical College  
 Huntsville, AL

**9729753** CISE/ANIR/NI \$19,989  
*Connection to the Internet*  
 Leigh Wilcox  
 Mater Dei College  
 Ogdensburg, NY

**9731991** BIO/DBI/REU \$206,799  
*Research Opportunities for Minorities Program*  
 Bruce Jackson  
 Massachusetts Bay Community College  
 Wellesley, MA

**9750503** EHR/DUE/ILI \$22,752  
*Implementing Microcomputer-Based Laboratory Exercises to Improve Instruction in Biology*  
 Drake Carter  
 Bismarck State College  
 Bismarck, ND

**9750557** EHR/DUE/ILI \$18,079  
*Gas Chromatograph/Mass Spectrometer in a Community College Curriculum*  
 John Cullen  
 Monroe Community College  
 Rochester, NY

**9750585** EHR/DUE/ILI \$58,971  
*GIS: New Skills for the Workforce*  
 Roberto Garza  
 San Antonio College  
 San Antonio, TX

**9750713** EHR/DUE/ILI \$57,814  
*Managing Divergent Networks: Internet/Intranet and Internetworking Skills*  
 Jerry Mauldin  
 Trident Technical College  
 Charleston, SC

**9750730** EHR/DUE/ILI \$7,114  
*Incorporation of Basic DNA Laboratory Techniques into Science Courses at the Two-Year College*  
 Donna Harrison  
 Stark Technical College  
 Canton, OH

**9750770** EHR/DUE/ILI \$19,964  
*Cross-Curricular Addition of Molecular Biology/Biochemistry Lab Experiences for Undergraduate Students in Biology and Biochemistry*  
 William Thieman  
 Ventura County Community College District Office  
 Ventura, CA

**9750777** EHR/DUE/ILI \$62,650  
*Integrating Computing Technology to Advance Mathematical Learning for Community College Students*  
 Robert Cappetta  
 College of Du Page  
 Glen Ellyn, IL

**9750798** EHR/DUE/ILI \$7,122  
*Enhancing Student Learning with the Use of Computers in General Human Anatomy*  
 Debra Howell  
 Chabot College  
 Hayward, CA

**9750802** EHR/DUE/ILI \$30,326  
*Cline Observatory Equipment*  
 Aaron Martin  
 Guilford Technical Community College  
 Jamestown, NC

**9750825** EHR/DUE/ILI \$26,204  
*Portable CAS Laboratories*  
 Patricia Preston  
 Pellissippi State Technical Community College  
 Knoxville, TN

**9750853** EHR/DUE/ILI \$68,650  
*Integrating Science and Mathematics: A Laboratory Approach*  
 Jane Gant  
 Florida Community College at Jacksonville  
 Jacksonville, FL

**9750890** EHR/DUE/ILI \$13,569  
*Molecular Modeling and Creative Design in the Chemistry Curriculum*  
 Victoria Bragin  
 Pasadena City College  
 Pasadena, CA

**9750904** EHR/DUE/ILI \$16,120  
*GIS System Lab for Navajo Undergraduates*  
Douglas Isely  
Diné College  
Tsaile, AZ

**9750928** EHR/DUE/ILI \$11,672  
*Exploring the Universe: Astronomical Investigations for Non-Science Majors*  
Jon Saken  
Palm Beach Community College  
Lake Worth, FL

**9750974** EHR/DUE/ILI \$26,073  
*A Project to Redesign the Undergraduate Physics Laboratory Curriculum to Increase Retention of Underrepresented Engineering Students*  
Jerry Riley  
Grossmont-Cuyamaca Community College District  
El Cajon, CA

**9750988** EHR/DUE/ILI \$9,792  
*A Model of Biology Laboratory Enhancement Through Acquisition of Calculator-Based Laboratory Systems*  
Daniel Ward  
Waubonsee Community College  
Sugar Grove, IL

**9750999** EHR/DUE/ILI \$60,000  
*Predictive Maintenance Certificate Program*  
John Sprague-Williams  
College of Du Page  
Glen Ellyn, IL

**9751001** EHR/DUE/ILI \$5,718  
*Virtual Laboratory Simulations as an Enhancement to General Biology Laboratory Exercises*  
Susan Finazzo  
Broward Community College  
Fort Lauderdale, FL

**9751018** EHR/DUE/ILI \$17,473  
*Louder Than Words*  
Craig Smith  
Paul Smith's College of Arts and Sciences  
Paul Smiths, NY

**9751032** EHR/DUE/ILI \$49,708  
*Technology in Developmental Mathematics and Laboratory Courses*  
Sounny Slitine  
Palo Alto College  
San Antonio, TX

**9751054** EHR/DUE/ILI \$50,000  
*Semiconductor Metrology*  
Juergen Przyllas  
Northern New Mexico Community College  
Española, NM

**9751058** EHR/DUE/ILI \$35,959  
*Implementing Distance Education Activities for Laboratory Sciences*  
K. Dale Smoak  
Piedmont Technical College  
Greenwood, SC

**9751067** EHR/DUE/ILI \$44,721  
*Introduction of Molecular Modeling into the Two-Year College Chemistry Curriculum*  
Iraj Behbahani  
Mount San Antonio College  
Walnut, CA

**9751102** EHR/DUE/ILI \$39,252  
*Using Computers to Engage Diverse Student Learners in Mathematics*  
Mary Anthony  
Rancho Santiago Community College  
Santa Ana, CA

**9751108** EHR/DUE/ILI \$8,451  
*Computerized Chemistry Laboratory as an Extension of the Hands-On Experience*  
Laura Precedo  
Broward Community College  
Fort Lauderdale, FL

**9751117** EHR/DUE/ILI \$20,000  
*Northern New Mexico Astronomy Laboratory*  
Ron Black  
Northern New Mexico Community College  
Española, NM

**9751122** EHR/DUE/ILI \$40,000  
*A Collaborative and Technological Environment for Teaching Mathematics*  
Robert Sompolski  
Oakton Community College  
Des Plaines, IL

**9751124** EHR/DUE/ILI \$47,965  
*A Mathematics Computer Laboratory for the Twenty-First Century*  
Susan MacLeod  
Greenfield Community College  
Greenfield, MA

**9751185** EHR/DUE/ILI \$54,943  
*A Model Dimensional Measurement Laboratory*  
Bruce Whipple  
Trident Technical College  
Charleston, SC

**9751246** EHR/DUE/ILI \$40,265  
*Improving Laboratory Instruction Through Computer-Integrated Machine Tool Technology*  
Alan Yendall  
Florence-Darlington Technical College  
Florence, SC

**9751275** EHR/DUE/ILI \$51,177  
*Iowa Lakes CADD/GIS Lab Improvement*  
Roger Patocka  
Iowa Lakes Community College Central Office  
Estherville, IA

**9751333** EHR/DUE/ILI \$56,957  
*Development of a Lightwave Communications Laboratory*  
Nicholas Massa  
Springfield Technical Community College  
Springfield, MA

**9751338** EHR/DUE/ILI \$42,353  
*Southeastern Massachusetts Environmental Technology Instrumentation Project*  
Patrick Tatano  
Cape Cod Community College  
West Barnstable, MA

**9751351** EHR/DUE/ILI \$37,670  
*Equipment Acquisition/Development of a Multi-Use Physical/Computer Science Laboratory*  
Robert Dell  
Mohawk Valley Community College  
Utica, NY

**9751357** EHR/DUE/ILI \$9,574  
*Laboratory Components of an Interdisciplinary First Course in Quantitative and Scientific Literacy*  
Cathy Godbois  
Harrisburg Area Community College  
Harrisburg, PA

**9751360** EHR/DUE/ILI \$44,852  
*Introductory Physics for the Twenty-First Century*  
Curtis Hieggelke  
Joliet Junior College  
Joliet, IL

**9751438** EHR/DUE/ILI \$62,479  
*Basic Technology Concepts Laboratory*  
William Mason  
St. Louis Community College at Florissant Valley  
Saint Louis, MO

**9751476** EHR/DUE/ILI \$8,550  
*Modern UV/Visible Spectroscopy for Improvement of Freshman and Sophomore Chemistry Instruction*  
Kimberly Kostka (University of Wisconsin Center, Rock Campus)  
University of Wisconsin, Madison  
Madison, WI

**9751485** EHR/DUE/ILI \$50,000  
*Computer Integration and Instrumentation Improvement in Psychology Courses on Two Campuses*  
Irene Malmgren  
Rancho Santiago Community College  
Santa Ana, CA

**9751493** EHR/DUE/ILI \$5,000  
*Applied Visual, Event-Driven, Distributed, Object-Oriented (VEDOC) Computing Using X-Window GUI and the Internet*  
H. Paul Haiduk  
Amarillo College  
Amarillo, TX

**9751501** EHR/DUE/ILI \$43,436  
*Classroom Computer Laboratory for Interactive Instruction in Developmental Mathematics*  
Janice Dykacz  
Community College of Baltimore County, Essex Campus  
Essex, MD

**9751517** EHR/DUE/ILI \$24,190  
*Precision Machining and Measurement Laboratory*  
Wayne Kenner  
Corning Community College  
Corning, NY

**9751569** EHR/DUE/ILI \$45,945  
*Integrating Virtual Reality in a Computer-Based Laboratory*  
David Emigh  
Quinebaug Valley Community College  
Danielson, CT

**9751626** EHR/DUE/ILI \$29,555  
*Computer-Assisted Instrumentation for Improving Biology Laboratory Instruction*  
Debra Barnes  
Contra Costa Community College  
San Pablo, CA

**9751642** EHR/DUE/ILI \$100,000  
*Computer Numerical Control (CNC) Technology*  
Kenneth McGlothlin  
Virginia Highlands Community College  
Abingdon, VA

**9751657** EHR/DUE/ILI \$38,640  
*Laboratory Improvement in Biotechnology*  
Dan Trubovitz  
San Diego Miramar College  
San Diego, CA

**9751674** EHR/DUE/ILI \$82,714  
*Employing Remote Direct Digital Control of Live HVAC Systems to Increase Learning*  
Dolph Hayden (Oklahoma State University, Okmulgee)  
Oklahoma State University  
Stillwater, OK

**9751718** EHR/DUE/ILI \$46,000  
*Integrating Process Control into Electromechanical Technology*  
Terry Bartelt  
Fox Valley Technical College  
Appleton, WI

**9751983** EHR/DUE/ATE \$169,158  
*Integrated Natural Resources Technology Program*  
Andrew Jackman  
Mount Hood Community College  
Gresham, OR

**9751984** EHR/DUE/ATE \$600,735  
*Advanced Technological Education in Plastics Engineering Technology*  
Timothy Weston  
Pennsylvania College of Technology  
Williamsport, PA

**9751987** EHR/DUE/ATE \$66,900  
*An Alliance to Prepare Technicians for Careers in Advanced Manufacturing and Engineering Materials Technology*  
James Jacobs  
Norfolk State University  
Norfolk, VA

**9751988** EHR/DUE/ATE \$986,000  
*Preserving the Legacy: A Comprehensive Curriculum and Materials Development Project in Support of Advanced Environmental Technology Education*  
Sally Beaty  
Intelecom Intelligent Telecommunications  
Pasadena, CA

**9751990** EHR/DUE/ATE \$3,000,000  
*Northeast Center for Telecommunications Technologies*  
James Masi  
Springfield Technical Community College  
Springfield, MA

**9751993** EHR/DUE/ATE \$825,720  
*Chemical Technology Education Collaborative*  
Arlyne Sarquis  
Miami University Middletown  
Middletown, OH

**9751998** EHR/DUE/ATE \$398,479  
*Assignment: Chemical Technology--II (ACT II)*  
John Kenkel  
Southeast Community College  
Lincoln, NE

**9752004** EHR/DUE/ATE \$199,944  
*Advanced Technology Education Program in Manufacturing Information Systems*  
Nabil Ibrahim  
San Jose State University  
San Jose, CA

**9752014** EHR/DUE/ATE \$96,959  
*Study of Present and Future Skill Levels of Visualization Technicians*  
Sue Mitchell  
Calhoun Community College  
Decatur, AL

**9752015** EHR/DUE/ATE \$100,000  
*Undergraduate Faculty Enhancement in Science, Mathematics, and Engineering Technology*  
Shepherd Anderson  
Sinclair Community College  
Dayton, OH

**9752017** EHR/DUE/ATE \$656,576  
*Water on the Web: Monitoring Minnesota's Lakes on the Internet*  
Bruce Munson  
University of Minnesota, Duluth  
Duluth, MN

**9752021** EHR/DUE/ATE \$600,000  
*Reinventing Computer-Aided Drafting and Design in a Total Modeling Environment While Increasing Student Diversity in Technologies*  
G. Edward Pittman  
Piedmont Virginia Community College  
Charlottesville, VA

**9752024** EHR/DUE/ATE \$450,000  
*Southeast Michigan Alliance for Reinvestment in Technological Education (SMARTE): Advanced Technologies in Product Design*  
Mulchand Rathod  
Wayne State University  
Detroit, MI

**9752025** EHR/DUE/ATE \$205,224  
*Engineering Prep: A Model School-to-Work Curriculum to Support ATE Programs in Semiconductor Manufacturing*  
Alan Miller  
Hillsboro School District 1J  
Hillsboro, OR

**9752027** EHR/DUE/ATE \$360,000  
*Biotechnology Technicians for the Future: Replicating the Wisconsin Model*  
Joy McMillan  
Madison Area Technical College  
Madison, WI

**9752028** EHR/DUE/ATE \$3,086,970  
*Marine Advanced Technology Education Center*  
Nicole Crane  
Monterey Peninsula College  
Monterey, CA

**9752032** EHR/DUE/ATE \$299,900  
*Measure Up! Dimensional Metrology and ISO 9001*  
Barbara Anderegge  
Madison Area Technical College  
Madison, WI

**9752036** EHR/DUE/ATE \$399,913  
*Developing Materials for Industry-Based Education*  
E. Gareth Hoachlander  
MPR Associates  
Berkeley, CA

**9752037** EHR/DUE/ATE \$599,825  
*A Partnership to Develop Advanced Technology Units on Genomic Biology*  
David Micklos  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, NY

**9752038** EHR/DUE/ATE \$119,999  
*Integrated Mathematics and Physics for Technical Programs*  
Robert Kimball  
Wake Technical Community College  
Raleigh, NC

**9752050** EHR/DUE/ATE \$449,975  
*Teacher/Faculty Enhancement, Curriculum Development, and Laboratory Improvement for Aquaculture*

Lance Stewart  
New England Board of Higher Education  
Boston, MA

**9752051** EHR/DUE/ATE \$472,158  
*Integrating Academic and Technical Education for Advanced Technological Careers*

Judith Leff  
Education Development Center  
Newton, MA

**9752053** EHR/DUE/ATE \$74,954  
*National Agri-Science Technology Project*

Brian Giles  
University of New Hampshire  
Durham, NH

**9752054** EHR/DUE/ATE \$551,106  
*Virtual Classroom Environment*

Bob Williams  
Daytona Beach Community College  
Daytona Beach, FL

**9752058** EHR/DUE/ATE \$262,800  
*Computer Simulations of Industrial Statistical Application for Undergraduates and Technicians*

David Shellabarger  
Lane Community College  
Eugene, OR

**9752060** EHR/DUE/ATE \$1,082,122  
*Network Training for Educators*

Catherine Cotten  
Jones County Junior College  
Ellisville, MS

**9752061** EHR/DUE/ATE \$600,000  
*Distance Learning and Virtual Laboratories for Technician Training*

David Lieberman  
CUNY Queensborough Community College  
New York, NY

**9752062** EHR/DUE/ATE \$240,000  
*Development of an Advanced Manufacturing Center: A Partnership with Industry to Prepare Technicians for Success in a Global Manufacturing Environment*

Bruce Whipple  
Trident Technical College  
Charleston, SC

**9752076** EHR/DUE/ATE \$775,049  
*Native American Environmental Technology Program*

Dan Burns  
Northwest Indian College  
Bellingham, WA

**9752081** EHR/DUE/ATE \$700,000  
*Validation and Implementation of a Coordinated Precision Agriculture Curriculum with K-12, Community Colleges, Universities, and Industry*

Terry Brase  
Hawkeye Community College  
Waterloo, IA

**9752082** EHR/DUE/ATE \$700,000  
*Fulfilling Lifelong Learning Through Flexible Manufacturing Technical Curriculum*

William Timmer  
Waukesha County Technical College  
Pewaukee, WI

**9752083** EHR/DUE/ATE \$450,000  
*Curriculum Development and Faculty Enhancement Synthesizing Technological and Business Management Skills*

Ronald Meier  
Illinois State University  
Normal, IL

**9752084** EHR/DUE/ATE \$445,961  
*Minnesota LCI Program: Enhancing Scientific Conceptual Learning and Technological Literacy*

Aaron Wenger  
Itasca Community College  
Grand Rapids, MN

**9752086** EHR/DUE/ATE \$1,200,000  
*A Work/Site Alliance: Community-Based GIS Education*

Stuart Waddell  
Henry Ford Community College  
Dearborn, MI

**9752090** EHR/DUE/ATE \$599,983  
*Cases in Industry Practice in Biotechnology*  
V. Celeste Carter  
Foothill College  
Los Altos Hills, CA

**9752092** EHR/DUE/ATE \$267,000  
*Scientific and Technological Education in Photonics*  
Chandra Roychoudhuri  
University of Connecticut  
Storrs, CT

**9752096** EHR/DUE/ATE \$380,000  
*Academy for Creative Technologies: An Interdisciplinary Interactive Multimedia Studies Program*  
Bruce Carter  
Pasadena City College  
Pasadena, CA

**9752101** EHR/DUE/ATE \$708,968  
*Image Processing for Teaching in Advanced Technological Education: Faculty and Teacher Development and Curriculum Materials*  
Melanie Magisos  
Center for Image Processing in Education  
Tucson, AZ

**9752102** EHR/DUE/ATE \$735,650  
*Science Technology: Knowledge and Skills--Phase II*  
Sylvia Ware  
American Chemical Society  
Washington, DC

**9752106** EHR/DUE/ATE \$49,433  
*Mechanized Agriculture Technology Partnership*  
David Clark  
Kings River Community College  
Reedley, CA

**9752192** EHR/DUE/CCD \$110,000  
*The Rio Grande River Project: An Interdisciplinary Math/Science Curriculum for College Freshmen and Sophomores*  
Pamela Vaughan  
Laredo Community College  
Laredo, TX

**9752241** EHR/DUE/CCD \$74,976  
*Beyond Formulas: Utilizing Workplace Application Modules to Enhance Introductory Mathematics Courses*  
John Khoury  
Brevard Community College  
Cocoa, FL

**9752318** EHR/DUE/CCD \$100,009  
*General Mathematics Curriculum Project*  
Catherine Cant  
Prince George's Community College  
Largo, MD

**9752568** EHR/DUE/CCD \$139,541  
*Multimedia Science Lab Incorporating Ojibwa/Metis Culture*  
Scott Hanson  
Turtle Mountain Community College  
Belcourt, ND

**9752577** EHR/DUE/CCD \$164,505  
*Intersections: The Interface Between Chemistry and Biology*  
Victoria Bragin  
Pasadena City College  
Pasadena, CA

**9752624** EHR/DUE/CCD \$150,000  
*Project Inclusion*  
Janan Hayes  
Merced College  
Merced, CA

**9752668** EHR/DUE/CCD \$49,870  
*Transforming the Teaching and Learning of General Biology for Non-Majors: A Model for the 21st Century*  
Gerald Button  
Portland Community College  
Portland, OR

**9752688** EHR/DUE/CCD \$126,000  
*GIS Curriculum Development*  
Jason Steinitz  
Erie Community College  
Buffalo, NY

**9752761** EHR/DUE/UFE \$157,653  
*Tribal College Math-Science Teaching Project*  
Peter Ryan  
Salish Kootenai College  
Pablo, MT

**9752778** EHR/DUE/UFE \$110,000  
*Using Remote Sensing, Image Processing, and Geographic Information Systems in Faculty Enhancement and Curriculum Development*  
Roxanne Mendrinos  
Foothill College  
Los Altos Hills, CA

**9752787** EHR/DUE/UFE \$185,000  
*Instrumentation Workshop for Two-Year College Chemistry Faculty*  
Richard Jones  
Sinclair Community College  
Dayton, OH

**9752795** EHR/DUE/UFE \$70,000  
*Summer Workshops for Faculty, Doctoral Students, and Adjuncts: Calculus, Differential Equations, and Linear Algebra*  
Patricia Wilkinson  
CUNY Borough of Manhattan Community College  
New York, NY

**9752885** EHR/DUE/CCD \$238,230  
*Consortium to Improve Chemistry: Linking Nine Community Colleges with NSF's Undergraduate Chemistry Systemic Reform Initiative*  
Mark Walter  
Oakton Community College  
Des Plaines, IL

**9802248** EHR/ESIE/IMD \$1,378,155  
*Parents Involved, Pigeons Everywhere*  
David Crippens  
KCET/Community Television of Southern California  
Los Angeles, CA

**9802918** MPS/AST/SPA \$86,343  
*Resonance Rings Bars: Keys to Galaxy Disk/Halo Properties*  
Tarsh Freeman  
Bevill State Community College  
Sumiton, AL

**9808972** GEO/EAR/GC \$92,040  
*A 9,000 Year Diatom Record of Climate Fluctuations from Lake Victoria, East Africa, with Decade-Scale Resolution*  
Jay Stager  
Paul Smith's College of Arts and Sciences  
Paul Smiths, NY

**9809164** OD/OPP/AOCS \$165,799  
*Investigation of Sulfur Chemistry in the Antarctic Troposphere*  
Richard Arimoto (New Mexico State University at Carlsbad)  
New Mexico State University  
Las Cruces, NM

**9811926** EHR/DUE/ATE \$307,847  
*Improving Science and Technology Education at Community Colleges--Round II*  
Rod Risley  
Phi Theta Kappa Headquarters  
Jackson, MS

**9812299** EHR/ESIE/IMD \$2,313,708  
*Systems and Interactions: Constructing Ideas in Physical Science*  
Fred Goldberg  
San Diego State University  
San Diego, CA

**9813444** EHR/DUE/ATE \$2,000,001  
*New Jersey Center for Advanced Technological Education*  
Jack Waintraub  
Middlesex County College  
Edison, NJ

**9813445** EHR/DUE/ATE \$1,996,949  
*Northeast Center for Sustainable Resources*  
Wynn Cudmore  
Chemeketa Community College  
Salem, OR

**9813446** EHR/DUE/ATE \$1,999,941  
*NorthWest Center for Emerging Technologies*  
Neil Evans  
Bellevue Community College  
Bellevue, WA

**9814135** EHR/ESIE/IMD \$600,000  
*Making the Case for Technological Literacy*  
William Wulf  
National Academy of Sciences  
Washington, DC

**9814210** EHR/DUE/ATE \$70,598  
*Articulation of the Marine Advanced Technology Education Center with the Oceanographic Research Community*  
Robert Winokur  
Consortium for Oceanographic Research and Education  
Washington, DC

**9816634** EHR/ESIE/TE \$329,565  
*Learning That Works: A School-to-Career Video Collection*  
Michele Korf  
WGBH Educational Foundation  
Boston, MA

**9816812** EHR/ESIE/IMD \$40,879  
*PI Conference for NSF Projects in Technology Education*  
Franzie Loepp  
Illinois State University  
Normal, IL

**9820699** GEO/EAR/E&HR \$10,665  
*Atlanta Consortium for Research in the Earth Sciences: Research Experiences for Undergraduates and Science Teachers*  
John Anderson  
Georgia Perimeter College  
Decatur, GA

**9850013** EHR/DUE/CCD \$199,980  
*Critical Thinking and Information Literacy Across the Curriculum*  
Michael Talbott  
Bellevue Community College  
Bellevue, WA

**9850015** EHR/DUE/CCD \$200,000  
*Furthering Advances Toward Learner-Centered Education*  
Michael Governanti  
Miami University Middletown  
Middletown, OH

**9850052** EHR/DUE/CCD \$200,000  
*Technology-Based Problem Solving Method in Learning*  
Vera Zdravkovich  
Prince George's Community College  
Largo, MD

**9850244** EHR/DUE/ATE \$125,000  
*National Aeronautics and Space Administration-American Mathematical Association of Two-Year Colleges Project Coalition*  
John Pazdar  
Capital Community College  
Hartford, CT

**9850247** EHR/DUE/ATE \$733,372  
*Chemical Technology Contextual Learning Curriculum Development Project*  
Carol White  
Athens Area Technical Institute  
Athens, GA

**9850249** EHR/DUE/ATE \$1,009,041  
*Associate Degree for Manufacturing Technicians: Institutionalizing Change in Technician Education by Expanding a "Work in Progress"*  
Arnold Packer  
Johns Hopkins University  
Baltimore, MD

**9850257** EHR/DUE/ATE \$86,724  
*Sciences of the Environment and Advanced Technology Education Consortium*  
Brian Brachio  
Bay Shore Union Free School District  
Bay Shore, NY

**9850258** EHR/DUE/ATE \$870,000  
*A Model for Technical Training in the Pulp and Paper and Chemical Process Industries*  
Christie Prout  
Alabama Southern Community College  
Monroeville, AL

**9850269** EHR/DUE/ATE \$500,000  
*Alternative Transportation Energy Education System Technology*  
Robert Kosak  
York Technical College  
Rock Hill, SC

**9850273** EHR/DUE/ATE \$574,699  
*Exploring Antarctic Technology Through Industrial Design, Engineering Mentorships, and Problem-Based Learning*  
Randall Landsberg  
University of Chicago  
Chicago, IL

**9850282** EHR/DUE/ATE \$500,000  
*Maintenance Engineering Technology Program*  
James Martini  
Henry Ford Community College  
Dearborn, MI

**9850283** EHR/DUE/ATE \$82,444  
*California Regional Consortium for Engineering Advances in Technological Excellence (CREATE)*  
Christopher Akelian  
Cuesta College  
San Luis Obispo, CA

**9850287** EHR/DUE/ATE \$420,000  
*Collaborative Training of Secondary, Postsecondary, and Returning Workers in Telemedical Technologies*  
Glen Skewes  
Western Wisconsin Technical College  
La Crosse, WI

**9850288** EHR/DUE/ATE \$206,026  
*Project TEAM: Technical Education for Advanced Manufacturing*  
Frederick Schoenig  
Cleveland State University  
Cleveland, OH

**9850289** EHR/DUE/ATE \$499,897  
*Consortium for Statewide Biotechnology Education*  
Diane Jones  
Community College of Baltimore County,  
Catonsville Campus  
Catonsville, MD

**9850291** EHR/DUE/ATE \$297,906  
*Interdisciplinary Live Rock Project*  
William Falls  
Hillsborough Community College  
Tampa, FL

**9850299** EHR/DUE/ATE \$274,667  
*Building a National Employer-Based Technical Education System*  
Monika Aring  
Education Development Center  
Newton, MA

**9850304** EHR/DUE/ATE \$700,000  
*Environmental Technology Program*  
James Fahey  
CUNY Bronx Community College  
Bronx, NY

**9850306** EHR/DUE/ATE \$799,906  
*GIS ACCESS: Geographic Information Sciences Curriculum Clearinghouse and Faculty Enhancement Project*  
Gail Hobbs  
Cypress College  
Cypress, CA

**9850307** EHR/DUE/ATE \$1,629,004  
*South East Advanced Technological Education Consortium for Communications Technology (SEATEC)*  
Sydney Rogers  
Nashville State Technical Institute  
Nashville, TN

**9850309** EHR/DUE/ATE \$550,000  
*BMCC-ATE Partnership in Multimedia Programming and Design*  
Alice Cohen  
CUNY Borough of Manhattan Community College  
New York, NY

**9850310** EHR/DUE/ATE \$900,000  
*Cross-Training Technicians and Engineers for Semiconductor Manufacturing*  
John Wood  
University of New Mexico  
Albuquerque, NM

**9850311** EHR/DUE/ATE \$695,924  
*Networking Communities*  
Lee Pulis  
TERC  
Cambridge, MA

**9850313** EHR/DUE/ATE \$849,995  
*A Network Systems Administration Program for Kentucky*  
Lillie Crowley  
Lexington Community College  
Lexington, KY

**9850317** EHR/DUE/ATE \$200,000  
*A Program to Educate Technicians for the Wood Products Industry*  
Nicholas Weidhaas  
Mount Wachusett Community College  
Gardner, MA

**9850318** EHR/DUE/ATE \$232,179  
*Southeastern Massachusetts Project in Environmental Technology Education*  
Mary Jane Curran  
Cape Cod Community College  
West Barnstable, MA

**9850319** EHR/DUE/ATE \$144,947  
*Foundation Skills--Phase II*  
Stephen Rodi  
Austin Community College  
Austin, TX

**9850324** EHR/DUE/ATE \$650,000  
*Preparing High-Performance Technicians in Distinctive Manufacturing*  
Rick Allison  
Oklahoma State University, Okmulgee  
Okmulgee, OK

**9850325** EHR/DUE/ATE \$2,999,995  
*Bio-Link: A National Advanced Technology Education Center for Biotechnology*  
Elaine Johnson  
City College of San Francisco  
San Francisco, CA

**9850326** EHR/DUE/ATE \$238,270  
*Project COMPACT: Career-Oriented Materials for Physics and Contemporary Technology*  
Doyle Davis  
New Hampshire Technical College, Berlin  
Berlin, NH

**9850327** EHR/DUE/ATE \$968,187  
*A Bridge to Advanced Technological Education*  
Davis Jenkins  
University of Illinois at Chicago  
Chicago, IL

**9850334** EHR/DUE/ATE \$314,278  
*Western Arkansas Advanced Manufacturing Project*  
Sidney Connor  
Westark College  
Fort Smith, AR

**9850337** EHR/DUE/ATE \$375,000  
*Advanced Information Technology Project*  
Henry Estrada  
Evergreen Valley College  
San Jose, CA

**9850341** EHR/DUE/ATE \$305,000  
*Los Angeles Bioscience Project*  
Carcy Chan  
East Los Angeles College  
Monterey Park, CA

**9850343** EHR/DUE/ATE \$137,893  
*Transporting Science, Computer, and Engineering Curricula to Rural Minority Students Through Telecourses and the Internet*  
G. Robert Converse  
University of Hawaii Maui Community College  
Kahului, HI

**9850344** EHR/DUE/ATE \$394,318  
*GIS/GPS Laboratory Exercises Using Workplace Data Sets*  
Osborne Nye  
Houston Community College  
Houston, TX

**9850350** EHR/DUE/ATE \$90,135  
*Teacher Empowerment for Success in Technology*  
Martha Kline  
Ohio University  
Athens, OH

**9850351** EHR/DUE/ATE \$284,800  
*Advanced Technological Education in Composite Manufacturing*  
Serge Abrate  
Southern Illinois University at Carbondale  
Carbondale, IL

**9850353** EHR/DUE/ATE \$819,994  
*Information Engineering Technology Program*

Charles Coffey  
Diné College  
Tsaile, AZ

**9850355** EHR/DUE/ATE \$200,000  
*Technical Sciences Academy: A Partnership Model*

Therese Jones  
Amarillo College  
Amarillo, TX

**9850425** EHR/DUE/ILI \$10,574  
*Advanced Chromatographic Instrumental Techniques  
for Beginning Undergraduates*

Fred Safarowic  
Passaic County Community College  
Paterson, NJ

**9850526** EHR/DUE/ILI \$45,984  
*Student Inquiry-Based Learning of Cellular Metabo-  
lism Using Computer-Generated Real-Time Data  
Acquisition*

Kimberly Maznicki  
Seminole Community College  
Sanford, FL

**9850588** EHR/DUE/ILI \$70,528  
*Exploring New Frontiers in Spatial Information  
Management: A Rocky Mountain High in Applied  
Geoscience Education*

Monica Ramirez  
Aims Community College  
Greeley, CO

**9850605** EHR/DUE/ILI \$40,566  
*Acquisition of Chromatographic Instrumentation*

David McGarvey  
Prince George's Community College  
Largo, MD

**9850635** EHR/DUE/ILI \$20,984  
*A New Biology Lab Curriculum for Nursing Students  
Emphasizing Investigative Learning Through the Use  
of Computer Technology*

Walter Schlosser  
Penn State Abington  
Abington, PA

**9850661** EHR/DUE/ILI \$62,224  
*Transforming a Mathematics Program*

Donna Foster  
Piedmont Technical College  
Greenwood, SC

**9850683** EHR/DUE/ILI \$12,873  
*College-Level Amusement Park Physics*

David Chandler  
Porterville College  
Porterville, CA

**9850689** EHR/DUE/ILI \$15,541  
*Laboratory Curricula to Support Biotechnology Edu-  
cation at a Community College*

Laura Blinderman  
Mercer County Community College  
Trenton, NJ

**9850696** EHR/DUE/ILI \$8,000  
*UV Spectrophotometry in the Biochemistry and  
Molecular Biology Laboratory*

Ruth Wrightsman  
Saddleback College  
Mission Viejo, CA

**9850697** EHR/DUE/ILI \$44,915  
*Introductory Computer Networking Laboratory*

Charles Smith  
Horry-Georgetown Technical College  
Conway, SC

**9850789** EHR/DUE/ILI \$10,990  
*Improving the General Chemistry and Environmental  
Science Laboratory Curricula Through CBL and  
Computer Activities*

Scott Donnelly  
Arizona Western College  
Yuma, AZ

**9850832** EHR/DUE/ILI \$26,500  
*Establishing a Precision Machining Measurement  
Center*

Robert Koster  
Piedmont Technical College  
Greenwood, SC

**9850876** EHR/DUE/ILI \$19,631  
*Instrumentation for Biotechnology Training and Undergraduate Biology*  
Janice Toyoshima  
Bakersfield College  
Bakersfield, CA

**9850933** EHR/DUE/ILI \$43,391  
*Lab to Support Electronic Communications: Digital Data and Networking*  
John Majkut  
Bristol Community College  
Fall River, MA

**9850951** EHR/DUE/ILI \$73,426  
*Instrumentation to Enhance the Chemistry Curriculum at Southwestern College*  
David Brown  
Southwestern College  
Chula Vista, CA

**9850966** EHR/DUE/ILI \$50,000  
*Integrated Reform of Intermediate Algebra*  
Brenda Chapman  
Trident Technical College  
Charleston, SC

**9851011** EHR/DUE/ILI \$50,000  
*Interactive, Interdisciplinary Instruction*  
Jacquelyn White  
Brevard Community College  
Cocoa, FL

**9851024** EHR/DUE/ILI \$35,264  
*Interactive, Microcomputer-Based Undergraduate Physics Laboratory*  
Karl Trout  
Penn State York  
York, PA

**9851025** EHR/DUE/ILI \$13,050  
*FTIR: A Tool for Changing College and High School Chemistry Curricula to a Discovery Mode*  
Paul Martino  
Flathead Valley Community College  
Kalispell, MT

**9851065** EHR/DUE/ILI \$53,838  
*Instrumentation and Process Control Laboratory*  
Alamgir Choudhury  
Cuyahoga Community College  
Cleveland, OH

**9851066** EHR/DUE/ILI \$26,078  
*Simulated Workplace Technical Physics Project*  
Robert Tyndall  
Forsyth Technical Community College  
Winston-Salem, NC

**9851077** EHR/DUE/ILI \$80,480  
*Introduction of Advanced Instrumentation in Science Classes Primarily Serving Allied Health and Education Majors*  
Roxanne Burns (Kent State University, East Liverpool Campus)  
Kent State University  
Kent, OH

**9851100** EHR/DUE/ILI \$55,000  
*Microcomputer Service Technician Program*  
John Cothran  
Piedmont Technical College  
Greenwood, SC

**9851169** EHR/DUE/ILI \$54,435  
*Instrumentation to Enhance Learning in the Undergraduate Organic Chemistry Laboratory*  
Brenda Ross  
Cottey College  
Nevada, MO

**9851173** EHR/DUE/ILI \$10,047  
*Enhancement of the Community College Chemistry Curriculum with Fourier Transform Infrared Spectroscopy*  
Susan Roper  
Sacramento City College  
Sacramento, CA

**9851212** EHR/DUE/ILI \$78,164  
*Global Positioning Systems Laboratory*  
Richard Kent  
Trident Technical College  
Charleston, SC

**9851220** EHR/DUE/ILI \$27,900  
*UV-Visible Spectrophotometers for the CPLP Network*

Julie Kuehn  
William Rainey Harper College  
Palatine, IL

**9851249** EHR/DUE/ILI \$13,632  
*Inquiry-Based Learning in Astronomy*

Chad Davies  
Cloud County Community College  
Concordia, KS

**9851251** EHR/DUE/ILI \$64,248  
*Improving Integrated Learning of the Sciences Using a Mobile Computer-Interfaced Instrumentation Laboratory*

Diane Jones  
Community College of Baltimore County,  
Catonsville Campus  
Catonsville, MD

**9851288** EHR/DUE/ILI \$26,760  
*Model and Build: An Integrated Engineering, Mathematics, and Machining Laboratory*

John Wadach  
Monroe Community College  
Rochester, NY

**9851314** EHR/DUE/ILI \$57,584  
*Rapid Prototyping Laboratory Improvement for Interdepartmental Access and Program Partner Education*

J. Malitzke  
Moraine Valley Community College  
Palos Hills, IL

**9851317** EHR/DUE/ILI \$40,578  
*Enhancement of the Community College Chemistry Curriculum Using Networked Computers*

Michael Solow  
City College of San Francisco  
San Francisco, CA

**9851385** EHR/DUE/ILI \$60,000  
*Bioscience Technology Laboratory Improvement*

Joseph Deak  
Lakeland Community College  
Mentor, OH

**9851432** EHR/DUE/ILI \$50,710  
*Development of a Laboratory for Lightwave Communications*

Judith Donnelly  
Three Rivers Community College  
Norwich, CT

**9851455** EHR/DUE/ILI \$38,470  
*Integration of Computers*

David Oliver  
Ventura College  
Ventura, CA

**9851506** EHR/DUE/ILI \$35,000  
*Digital Media Interactive Micro-Network Lab*

Kirk Smallman  
Springfield Technical Community College  
Springfield, MA

**9851507** EHR/DUE/ILI \$28,376  
*GPS/GIS/Image Analysis Technology for Field Research in Biology and Environmental Science*

Daniel Buckley  
University of Maine at Farmington  
Farmington, ME

**9851537** EHR/DUE/ILI \$26,240  
*Digital Video Analysis and Microcomputer-Based Laboratory for Mathematics Understanding*

Carolyn Haas  
Salem Community College  
Carneys Point, NJ

**9851540** EHR/DUE/ILI \$5,085  
*Cell Fractionation: Applications in the Freshman Biology Laboratory*

Michael Burchfield  
Holmes Community College  
Goodman, MS

**9851562** EHR/DUE/ILI \$14,306  
*Development of a Mathematical Modeling Course with Calculator-Based Laboratory*

Frances Kelly  
Andrew College  
Cuthbert, GA

**9851586** EHR/DUE/ILI \$67,500  
*Natural Resource Technician-GIS/GPS Integration Project*

Bruce Cecka  
Fox Valley Technical College  
Appleton, WI

**9851611** EHR/DUE/ILI \$27,168  
*Study of Chemistry by the Guided-Inquiry Method Using Microcomputer-Based Laboratories*

Mary Durick  
Bismarck State College  
Bismarck, ND

**9851642** EHR/DUE/ILI \$64,132  
*Scientific Computation for Interdisciplinary Data Analysis and Technological Application*

Keith Clay  
Green River Community College  
Auburn, WA

**9851668** EHR/DUE/ILI \$15,177  
*Inquiry-Based Physics Lab Using Pre-Service Teachers as Peer Instructors*

Paul Stancioff  
University of Maine at Farmington  
Farmington, ME

**9876589** EHR/DUE/CETP \$433,858  
*Project TEACH: Teacher Education Alliance of Colleges and High Schools*

Steve Kinholt  
Green River Community College  
Auburn, WA

**9896052** CISE/IIS/IDM \$156,272  
*Visual Query Languages for Database Systems*

Maria Cruz  
Worcester Junior College  
Worcester, MA

**9900698** EHR/REC/PE \$1,289,690  
*Assessing the Impact and Effectiveness of the Advanced Technological Education Program*

Arlen Gullickson  
Western Michigan University  
Kalamazoo, MI

**9907986** EHR/DUE/ATE \$300,000  
*Washington State Information Technology Workforce and Education Initiative*

Neil Evans  
Bellevue Community College  
Bellevue, WA

**9908191** EHR/DUE/ATE \$974,949  
*Advancing ATE in the Community College Field*

Lynn Barnett  
American Association of Community Colleges  
Washington, DC

**9908409** EHR/DUE/ATE \$2,000,000  
*South Carolina Advanced Technological Education Center*

Elaine Craft  
S.C. State Board for Technical and Comprehensive Education  
Columbia, SC

**9908419** EHR/DUE/ATE \$2,000,000  
*Maricopa Advanced Technology Education Center*

Michael Lesiecki  
Maricopa Community College District Office  
Tempe, AZ

**9909132** EHR/DUE/CCLI-A&I \$12,192  
*Co-Editor of "NSF Highlights" Column in the Journal of Chemical Education*

Richard Jones  
Sinclair Community College  
Dayton, OH

**9909552** EHR/DUE/CCLI-A&I \$45,633  
*A National Model for Curriculum Adaptation and Implementation*

Comfort Cover  
Pikes Peak Community College  
Colorado Springs, CO

**9910818** EHR/DUE/CCLI-A&I \$50,000  
*Cyber Careers for the Net-Generation: IT Awareness and Teaching Tools for Teachers*

Peter Saflund  
Bellevue Community College  
Bellevue, WA

**9950006** EHR/DUE/ATE \$705,616  
*Two-Year College Quantum Optics Advanced Technological Education Program*  
Robert Clark  
Texas Engineering Experiment Station  
College Station, TX

**9950011** EHR/DUE/ATE \$800,000  
*Increasing the ImPACT*  
Arlyne Sarquis  
Miami University Middletown  
Middletown, OH

**9950015** EHR/DUE/ATE \$494,916  
*California Regional Consortium for Engineering Advances in Technological Excellence (CREATE)*  
Christopher Akelian  
Cuesta College  
San Luis Obispo, CA

**9950019** EHR/DUE/ATE \$449,725  
*Designing a Pre-Technology Program Using an Interdisciplinary Approach and Work Keys Assessment*  
Ramesh Gaonkar  
Onondaga Community College  
Syracuse, NY

**9950025** EHR/DUE/ATE \$847,785  
*Advancing Careers in Technology and Science*  
John Baltzer  
Collin County Community College  
McKinney, TX

**9950028** EHR/DUE/ATE \$856,583  
*Community College Information Technology Network*  
David Harrison  
Sinclair Community College  
Dayton, OH

**9950029** EHR/DUE/ATE \$853,640  
*An Evolving Program to Prepare Information Technologists in Southwest Ohio for the 21st Century*  
Ashraf Saad  
University of Cincinnati  
Cincinnati, OH

**9950034** EHR/DUE/ATE \$611,969  
*Energy Technology Education Project*  
Rita DeHart  
Bismarck State College  
Bismarck, ND

**9950036** EHR/DUE/ATE \$674,677  
*Developmental Mathematics and Its Applications*  
Solomon Garfunkel  
Consortium for Mathematics and Its Applications  
Lexington, MA

**9950037** EHR/DUE/ATE \$315,792  
*Applied Internet Technology: Curriculum and Careers*  
John Sands  
Moraine Valley Community College  
Palos Hills, IL

**9950039** EHR/DUE/ATE \$248,616  
*Wireless Industry and Education Collaboration*  
Misty Baker  
Global Wireless Education Consortium  
St. Cloud, MN

**9950042** EHR/DUE/ATE \$375,000  
*Assignment: Chemical Technology--III (ACT III)*  
John Kenkel  
Southeast Community College  
Lincoln, NE

**9950046** EHR/DUE/ATE \$1,095,684  
*Twenty-First Century Urban Technical Education Project: Construction Technology Systems for Grades 11-14*  
William Hodgkinson  
Milwaukee Area Technical College  
Milwaukee, WI

**9950051** EHR/DUE/ATE \$600,328  
*Faculty Associates in Science and Technology Leadership Corps Project for Enhancing Environmental Technology Education*  
Kirk Laflin  
Partnership for Environmental Technology Education  
Pleasanton, CA

**9950052** EHR/DUE/ATE \$500,738  
*Manufacturing Simulation Technology Project*  
Thomas Crampton  
Mott Community College  
Flint, MI

**9950053** EHR/DUE/ATE \$71,873  
*Advanced Technology Education for Merging Microtechnologies: The Microchip and the Biochip*  
George Flowers  
J. Sargeant Reynolds Community College  
Richmond, VA

**9950056** EHR/DUE/ATE \$272,000  
*Internet and Multimedia Technology: Curriculum, Faculty, and Workforce Development*  
Sylvia Sorkin  
Community College of Baltimore County, Essex Campus  
Essex, MD

**9950057** EHR/DUE/ATE \$749,998  
*Bioscience Education-to-Employment*  
Audrey Trotter  
Peralta Community College District Office  
Oakland, CA

**9950059** EHR/DUE/ATE \$199,977  
*Project DAWN: Developing Alabama's Workforce Now*  
Bob Baker  
Gadsden State Community College  
Gadsden, AL

**9950062** EHR/DUE/ATE \$305,000  
*Two-Year College Physics Workshops for the 21st Century*  
Curtis Hieggelke  
Joliet Junior College  
Joliet, IL

**9950063** EHR/DUE/ATE \$47,682  
*A Regional Center for Integrating Aquaculture Technologies in Secondary and Two-Year Schools*  
John Simpson  
Gadsden State Community College  
Gadsden, AL

**9950067** EHR/DUE/ATE \$300,000  
*Western Massachusetts Advanced Technology Training Consortium*  
William Mulholland  
Berkshire Community College  
Pittsfield, MA

**9950069** EHR/DUE/ATE \$308,764  
*The Technology Connection: Computer Training for Residents of Arctic Alaska*  
Brooke Selmer  
Ilisagvik College  
Barrow, AK

**9950071** EHR/DUE/ATE \$898,493  
*Consortium for the Advancement of Process Technology*  
Joanna Kile  
College of the Mainland  
Texas City, TX

**9950072** EHR/DUE/ATE \$805,326  
*Plastics Resources for Educators*  
Timothy Weston  
Pennsylvania College of Technology  
Williamsport, PA

**9950073** EHR/DUE/ATE \$399,969  
*North Carolina Consortium for Logistics Education*  
Noel Greis  
University of North Carolina at Chapel Hill  
Chapel Hill, NC

**9950076** EHR/DUE/ATE \$725,292  
*The Power of Partnerships: Integrating Academics into the Manufacturing World*  
Carol Chambers  
Traverse Bay Area Intermediate School District  
Traverse City, MI

**9950078** EHR/DUE/ATE \$100,000  
*Statewide College of Technology ATE Enhancement Project*  
Karen Wosczyzna-Birch  
Tunxis Community College  
Farmington, CT

**9950080** EHR/DUE/ATE \$52,064  
*Development of Job-based Problems for Technical Physics*  
Ali Yazdi  
Jefferson State Community College  
Birmingham, AL

**9950084** EHR/DUE/ATE \$184,952  
*Interdisciplinary Laboratory Science Technology Program*  
Pascal Ricatto  
Bergen Community College  
Paramus, NJ

**9950085** EHR/DUE/ATE \$1,758,163  
*Southeast Consortium for Advanced Network Technology Education*  
Catherine Cotten  
Jones County Junior College  
Ellisville, MS

**9950088** EHR/DUE/ATE \$499,918  
*Development and Field Test of a Multimedia Simulation System for Training Aviation Technicians via the Internet*  
Charles Billman  
Rock Valley College  
Rockford, IL

**9950098** EHR/DUE/ATE \$40,000  
*Cyber Careers for the Net-Generation: An Information Technology Career Education Video*  
Peter Saflund  
Bellevue Community College  
Bellevue, WA

**9950099** EHR/DUE/ATE \$339,538  
*Industrial Biotechnology Instruction: A Modular Approach*  
Maureen Harrigan  
Moorpark College  
Moorpark, CA

**9950101** EHR/DUE/ATE \$231,043  
*A Resource Package for Integrating Mathematics and Algebra-Based Physics*  
Robert Kimball  
Wake Technical Community College  
Raleigh, NC

**9950105** EHR/DUE/ATE \$420,000  
*Increasing the Flow: A Community College-Centered Model to Meet Rural Information Technology Needs*  
Douglas Wilkins  
Greenfield Community College  
Greenfield, MA

**9950106** EHR/DUE/ATE \$1,100,000  
*Tech-4 Electronic Workforce Development System*  
Nasser Hedayat  
Valencia Community College  
Orlando, FL

**9950125** EHR/DUE/CCLI-A&I \$35,726  
*Adapting GIS/GPS into the Forest Technology Curriculum Using Learner-Centered Instruction*  
John Jastrzembski  
Allegany Community College  
Cumberland, MD

**9950258** EHR/DUE/CCLI-A&I \$19,602  
*Using Molecular Biology Experiments to Enhance and Improve Students' Understanding and Retention of Biological Science*  
Keith Hench  
Kirkwood Community College  
Cedar Rapids, IA

**9950320** EHR/DUE/CCLI-AA \$227,621  
*Bringing Systemic Change to Community College Chemistry*  
Carolyn Collins  
Community College of South Nevada  
North Las Vegas, NV

**9950353** EHR/DUE/CCLI-A&I \$120,000  
*Comprehensive Curriculum Reform: Adapting and Implementing the Enhanced Education Experience for Engineers*  
David Cattell  
Community College of Philadelphia  
Philadelphia, PA

**9950381** EHR/DUE/CCLI-EMD \$75,000  
*College Mathematics from an Industry-Based, Multi-disciplinary Technological Perspective*  
Ellen Velie  
Linn State Technical College  
Linn, MO

**9950434** EHR/DUE/CCLI-A&I \$21,138  
*Enhanced Instrumentation and Laboratory Improvement*

Chuen-Chuen Fang  
Shelton State Community College  
Tuscaloosa, AL

**9950466** EHR/DUE/CCLI-A&I \$25,775  
*Physics Laboratory Improvement Project*

John Fries  
Santa Ana College  
Santa Ana, CA

**9950469** EHR/DUE/CCLI-EMD \$37,250  
*Web-Based Laboratory Experiments for Manufacturing Engineering Technology Programs*

Gerald Frederick  
Texas State Technical College, Sweetwater  
Sweetwater, TX

**9950509** EHR/DUE/CCLI-A&I \$32,847  
*High-Tech, Project-Based Beginning Algebra and Statistics Course for Two-Year Colleges*

Sue Stokley  
Spartanburg Technical College  
Spartanburg, SC

**9950568** EHR/DUE/CCLI-EMD \$107,246  
*Interactive Software to Improve Student Success in Developmental Mathematics*

Joanne Manville  
Bunker Hill Community College  
Boston, MA

**9950585** EHR/DUE/CCLI-A&I \$29,450  
*Integration of Computers Across the Chemistry Curriculum*

Gee Krishnan  
St. Louis Community College at Meramec  
Kirkwood, MO

**9950616** EHR/DUE/CCLI-A&I \$11,747  
*Instrumentation for Environment Quality Assessment by Non-Science Majors*

William Tarutis  
Lackawanna Junior College  
Scranton, PA

**9950692** EHR/DUE/CCLI-A&I \$18,050  
*Computer-Assisted, Interactive Undergraduate Mathematics*

Shubhangi Stalder  
University of Wisconsin, Waukesha  
Waukesha, WI

**9950726** EHR/DUE/CCLI-A&I \$167,545  
*From Concept to Production: Reconceptualizing the Mechanical Engineering Technology Curricula*

Rupert Chandler  
Blue Ridge Community College  
Weyers Cave, VA

**9950732** EHR/DUE/CCLI-A&I \$75,000  
*Wireless Telecommunications Laboratory Project*

Gary Mullett  
Springfield Technical Community College  
Springfield, MA

**9950763** EHR/DUE/CCLI-A&I \$87,185  
*Improving Student Learning in Calculus Through Effective Implementation of Model Activities*

Mary Ann Misko  
Gadsden State Community College  
Gadsden, AL

**9950887** EHR/DUE/CCLI-A&I \$200,000  
*Interdisciplinary Curriculum and Laboratory Development for Chemical Process Operator Technology Education*

Helen Hauer  
Delaware Technical and Community College,  
Stanton-Newark Campus  
Newark, DE

**9950920** EHR/DUE/CCLI-A&I \$90,000  
*Integration of Multidisciplinary Computer-Based Problem Solving into the Undergraduate Science Curriculum: A Model for Cross-Curricular Technology Transfer*

Jean Whileyman  
Kingwood College  
Humble, TX

**9951363** EHR/DUE/CCLI-A&I \$41,993  
*Microcomputer-Based Physics Laboratory for the Year 2000*

Susan Vallera  
Jefferson Technical College  
Steubenville, OH

**9951411** EHR/DUE/CCLI-A&I \$8,955  
*Enhancement of Undergraduate Chemistry Curriculum by the Incorporation of a Fourier Transform Infrared Spectrometer*

David Klein  
Kansas City Kansas Community College  
Kansas City, KS

**9970881** EHR/DUE/ATE \$128,070  
*Hands on Physics: Evaluation and Dissemination*

Robert Tinker  
Concord Consortium  
Concord, MA

**9972052** MPS/DMR/Metals \$178,823  
*Unique Solidification Cracking Mechanism in Ultra-Low Interstitial Iron and Iron Alloy Weld Metal*

Jack Devletian (Portland Community College)  
Oregon Graduate Institute of Science and  
Technology  
Beaverton, OR

**9996128** EHR/DUE/ATE \$64,584  
*Machine Tool Advanced Skills Technology Educational Resources (MASTER)*

Joan Stepsis  
San Diego City College  
San Diego, CA

