Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
2010				
COSI -- Center of Science and Industry	Jennifer Snively	Outreach Programs	Festival of Chemistry	$11,500
Harvard University	Eric Mazur	Physics/School of Engineering and Applied Sciences	Advancing Teaching and Learning in the Chemical Sciences through Technology-Based Innovations	$42,000
Madison Area Technical College	Holly Kerby	Chemistry & Creative Writing	Science Investigation Plays: Engaging Children in Chemistry and Undergraduates in Chemical Education	$75,000
Massachusetts Institute of Technology	Timothy M. Swager	Chemistry		$100,000
Monell Chemical Senses Center	Danielle Reed		A Taste of Chemistry	$50,000
Nobel Prize Education Fund	Adam Smith	Nobelprize.org	Chemistry Matters: A Video Series with Nobel Prize Laureates in Chemistry	$50,000
The University of Chicago	Ka Yee Lee	Chemistry	Incremental Mentoring Through the Teaching of Chemistry	$31,000
The University of Chicago	Norbert Scherer	Chemistry	Visual and Hands-on Learning of Statistical Processes in Chemistry	$26,000
The University of Wisconsin, Madison	Douglas Weibel	Biochemistry	MicroExplorers: Adventures in a Tiny Universe	$25,000
Tufts University	David Walt	Chemistry	Tufts Chemistry Organized Outreach Partnership (CO-OP): A model for sharing resources between institutions of K-12 and higher learning	$50,000
Union College	Joanne Kehlbeck	Chemistry	Culinary Chemistry: Developing Laboratory Modules for General Education and Outreach	$26,000
University of California, Berkeley	Darrell Porcello	Center for Technology Innovation	Chemistry for Informal Educators	$31,815
University of California, Berkeley	Alexander Pines	Chemistry	eChem: Innovation in Online and Video Education in Chemistry	$80,000
University of Massachusetts, Amherst	Scott Auerbach	Chemistry	Development of Case Studies for iCons -- Integrated Concentrations in Science -- A New Integrated Science Minor at UMass	$50,000

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Institution	Awardee	Department	Title	Award
2009				
Arizona State University	Anne K. Jones	Chemistry and Biochemistry	Development of a student interest driven course "Topics in Sustainable Chemistry"	$25,000
Clemson University	Melanie M. Cooper	Chemistry	Organic Pad: A Tablet PC-Based Interactivity Tool for Teaching Chemistry	$25,000
Drexel University	Daniel B. King	Chemistry	Development of Hands-On, Everyday Chemistry Experiments	$19,717
Earth & Sky, Inc.	Ryan Britton	Earth & Sky, Inc.	Profiles in Green Chemistry: Innovators toward 21st Century Sustainability	$45,000
EdVenture Children's Museum	Susan E. Bonk	Education	Chemistry From A to Z (Aluminum to Zinc) – Exploring the Chemical Sciences at EdVenture	$45,000
Iowa State University	Nicola L. Pohl	Chemistry	Connecting Chemistry to Biology and the Everyday in the Modern Undergraduate Chemistry Lab	$20,000
Iowa State University	Connie P. Hargrave	Curriculum and Instruction, Science Bound	Fostering Interest in the Chemical Sciences via Peer-Led Outreach: Chemistry Ambassadors	$25,000
Kennesaw State University	Marina C. Koether	Chemistry and Biochemistry	Pharmaceutical Chemistry Track: A Pathway for the Pre-Pharmacy Students	$5,745
Mount Holyoke College	Maisie J. Shaw	Chemistry	Passport to Chemistry Adventure for Elementary School Students and their Parents	$25,980
Museum of Science and Industry	Rachel Hellenga	Project Director, Science Storms	Create a Chemical Reaction	$125,000
North Dakota State College of Science	William R. Shay	Mathematics and Science	A Multi-faceted Laboratory Approach to Increase Student Achievement and Retention	$5,000
Pratt Institute	Eleonora Del Federico	Math and Science	Expanding Pratt's Mobile Laboratory for Studying Artists' Materials and Artifacts: Capturing Students' Interest in Chemistry at an Art and Design College	$99,575
Princeton University	William F. Brinkman	Physics	Study of the capture of CO2 directly from the atmosphere and from flue gas that will be done under the sponsorship of the Panel on Public Affairs of the American Physical Society.	$40,000
Texas A&M University	Bryan O. Boulanger	Civil Engineering	Promoting chemistry through secondary school education programs designed to raise awareness of community potable water challenges	$30,000
The Ohio State University	Glenda La Rue	College of Engineering	CheMe and YOU @ OSU summer program	$50,000

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Institution	Awardee	Department	Title	Award
The University of Wisconsin, Madison	John W. Moore	Chemistry	Making Chemistry and Nanoscience Larger Than Life: Building a Carbon Playground	$30,000
University of California, Irvine	Pierre F. Baldi	Computer Science	Reaction Explorer for Chemical Education	$31,000
University of California, Santa Barbara	Craig J. Hawker	Materials	Materials Research Facilities Network (MRFN): A National Research and Education Resource for the STEM Disciplines	$24,936
University of Illinois at Urbana-Champaign	Alexander Scheeline	Chemistry	Retargetable Modules for Instrumental Analysis Across Cultures and Learning Styles	$3,223
University of Massachusetts, Amherst	Craig Martin	Chemistry	Interactive 3D Molecules in Architectural Spaces	$45,000
Utah Science Center Foundation	Joseph Andrade		Water, Light and Chemistry: Wet and Dry Stuff	$30,000
2008				
American Chemical Society	Mary Kirchhoff	Membership and Scientific Advancement	American Chemical Society Scholarship Program for Underrepresented Minority Undergraduate Students in the Chemical Sciences	$140,000
American Institute of Physics	Alicia M. Torres	Media and Government Releations	Discoveries and Breakthroughs Inside Science (DBIS): Bringing Chemistry Science and Engineering Research to Local TV News	$60,000
Colorado State University	Bruce A. Parkinson	Chemistry	A Distributed Combinatorial Search for Water Splitting Photocatalysts	$45,000
Education Foundation of Harris County	Douglas H. Kleiner	President / CEO	Science Fiction: Teaching Chemistry with Children's Literature	$50,350
Florida Institute of Technology	Kurt J. Winkelmann	Chemistry	Nanotechnology for Freshmen: Learning Chemistry through Nanomaterial Synthesis and Applications	$33,000
Georgia College & State University	Rosalie A. Richards	Science Education Center	Chemistry Rocks! Summer Institute for High School Teachers	$30,627
John Jay College of Criminal Justice	Gloria Proni	Sciences	Chemistry is All Around Us	$31,180
Museum of Science, Boston	MJ Morse	Current Science & Technology	Connecting the Public to Chemistry	$200,000
Nobel Web Education Fund	Adam Smith	Editorial	Nobel Prize Narratives in Organic Chemistry	$45,000
Polytechnic University	Jin K. Montclare	Chemical and Biological Sciences	Mentored Chem-Bio Technology Lab: From Virtual Small Molecules to Biomolecules	$50,000
Smith College	Kate Queeney	Chemistry	Achieving Excellence in Math, Engineering and Science, a focus on chemistry	$36,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
State University of New York College at Oneonta	Jacqueline S. Bennett	Chemistry & Biochemistry	Integrating Green Photochemistry into the Undergraduate Chemistry Curriculum	$29,928
Texas A&M University	Victor M. Ugaz	Chemical Engineering	DNA to Go: Do-it-Yourself PCR Thermocyclers	$44,000
The Johns Hopkins University	Linda E. Brody	Center for Talented Youth (CTY)	Focusing on the Chemical Sciences on Cogito.org, a Web site and Online Community for Gifted Pre-college Math and Science Students	$38,703
The Metropolitan Museum of Art	Marco Leona	Scientific Research	Advanced Raman Spectroscopy Techniques in Art and Archaeology: An Undergraduate Chemistry Research Project	$40,000
The New York Academy of Sciences	Karin E. Pavese	Physical Sciences & Engineering	Soft Materials Discussion Group at The New York Academy of Sciences	$17,000
The Science Television Workshop	Jo Ann Caplin		The Science and Art Project: The Hours on Forensic Chemistry, Chemistry of Paints, and Tracking Down Frauds and Fakes	$48,175
University at Buffalo	Valerie A. Frerichs	Chemistry	Dissemination of Research-Based Introductory Chemistry Laboratory Curricula	$40,000
University of California, Berkeley	John Arnold	Chemistry	Materials Chemistry in the Undergraduate Laboratory: Synthesis, Characterization and Properties	$50,000
University of Illinois at Urbana-Champaign	Doug Mills	Chemistry	A Multimedia Studio for the Production of Web-based Course Materials for the Chemical and Biological Sciences at UIUC	$40,000
University of Notre Dame	Olaf Wiest	Chemistry and Biochemistry	Chemistry in a Digital Visualization Theatre	$19,756
University of Richmond	Jeffrey I. Seeman	Chemistry	Science Fair Projects in Chemistry: A Visual Step-by-Step Educational and Motivational Tool	$40,000
University of Texas at El Paso	Keith H. Pannell	Chemistry	Science Studio	$15,000
University of Utah	Jack Simons	Chemistry	Creating a Structure for U.S. Summer Schools on Theoretical Chemistry	$60,000
Wake Forest University	Roy R. Hantgan	Biochemistry	Molecules to Medicines. Enable promising students, Dreyfus Discoverers, to complete internships in the pharmaceutical and biotechnology industries.	$15,000
West Texas A&M University	Mark J. Olsen	Mathematics, Chemistry, and Physics	Novel Chemistry Displays and Assessment for the Panhandle Plains Historical Museum	$33,000

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Institution	Awardee	Department	Title	Award
2007				
Brigham Young University	Adam T. Woolley	Chemistry and Biochemistry	Microchip Separations in Undergraduate Chemistry Laboratories	$40,000
California Science Center	Sue L. Neuen	Amgen Center for Science Learning	Orange County Middle School Physical Science Symposium & Professional Development Program	$17,652
Chemical Heritage Foundation	Stephen Lyons	Moreno/Lyons Productions, LLC	Today's Chemical Explorers	$49,700
Columbia College Chicago	Zafra Lerman	Science Education	"Workshop to develop a Middle East K-16 curriculum through environmental education"	$25,000
Columbia University	Darcy B. Kelley	Biological Sciences	Developing Chemistry Modules for "Frontiers of Science" Course at Columbia University	$45,000
Howard University	Charles M. Hosten	Chemistry	Science and Public Policy for an Undergraduate Curriculum	$45,000
Iona College	Sunghee Lee	Chemistry	Dynamic Video Microscopy in Undergraduate Chemistry Education	$25,000
Molecular Frontiers Foundation	Richard N. Zare	Department of Chemistry	Molecular Frontiers Best Question Competition	$25,000
Mount Holyoke College	Sean M. Decatur	Chemistry	Assessing and Strengthening the Pipeline of Underrepresented Minorities into Successful Undergraduate Science Degrees	$36,000
Museum of Science, Boston	M.J. Morse	Current Science and Technology Center	Connecting the Public to Chemistry	$20,000
Northeastern University	Patricia A. Mabrouk	Chemistry & Chemical Biology	Web-GURU: Web-Based Guide to Research for Undergraduates	$36,640
Oklahoma School of Science and Mathematics	A.K.Fazlur Rahman	Chemistry	Exploring Alternative Energy Resources : A Research Project for High School Students	$5,900
Oregon Museum of Science and Industry	Marilyn Johnson	Education	Chemistry in the K-8 Classroom	$45,000
Portland State University	Scott M. Reed	Chemistry	Chem Map: Mapping the Chemistry of Everyday Materials	$27,409
Rensselaer Polytechnic Institute	Sara L. McIntosh	Chemistry and Chemical Biology	"Whodunit?" The Science of Crime Scenes"	$11,616
Sciencenter	Rae E.M. Ostman	Education	Science Museum Chemistry Programs for School and Family Audiences	$30,943
Simmons College	Leonard J. Soltzberg	Chemistry	Extending the Research Experience into Early Undergraduate Chemistry Laboratories	$33,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Stanford University	Michael D. Fayer	Chemistry	Retaining and Revitalizing Chemistry Teachers Through Summer Research Fellowships	$25,000
The Discovery Museums	Denise LeBlanc	Science Discovery Museum	Community Chemistry: Engaging K-8 Students with Hands-on chemistry to Find the Extraordinary in the Everyday from Molecules to the Professions	$17,614
The New York Academy of Sciences	Karin E. Pavese	Programs	Green Science & Environmental Systems Discussion Group at The New York Academy of Sciences	$23,900
The Pennsylvania State University	Andrew L. Zydney	Chemical Engineering	Hands-On Product Design Experience in Chemical Engineering at The Pennsylvania State University	$39,000
The Rockefeller University	Bonnie Kaiser	Precollege Science Education	Synergy through Inquiry: A Pilot Project of The Rockefeller University Science Outreach Program to Test and Track Inquiry-Based Approaches to Chemistry Learning	$75,000
The University of North Carolina	John M. Papanikolas	Chemistry	Virtual Substance: A Tool for Teaching Science Inquiry from Middle School to Physical Chemistry	$30,000
The University of North Carolina	Todd R. Boyette	Morehead Planetarium and Science Center	Science 360: Today's Chemistry	$50,000
University of California, Berkeley	Jay D. Keasling	Chemical Engineering	Addressable cell-cell communication in Escherichia coli	$49,000
University of Pennsylvania	Larry Gladney	Physics	A seed grant for the design and implementation of Concept-Focused Short Courses for continuing content preparation of secondary school chemistry teachers	$26,183
Western Washington University	David L. Patrick	Chemistry	Beyond the Individual Molecule Paradigm: Introducing Nanomaterials Across the Curriculum	$28,000
WGBH	Jessica Cashdan	Foundation Development	The Percy Julian Collection: Multi-Media Resources for Teachers and Students	$47,112
Whitman College	Frank M. Dunnivant	Chemistry	An Analytical Instrumentation Center for the Natural Sciences – Purchase of an Iductively Coupled Plasma Mass-Spectrometer System	$50,000

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Institution	Awardee	Department	Title	Award
2006				
Colorado State University	Anthony K. Rappe	Chemistry	Many Minds Chemistry Program	$38,000
Exploratorium	Charles C. Carlson	Life Sciences	Biochemical Connections: New Exhibits for the Exploratorium Traits of Life Collection	$25,000
Georgia Institute of Technology	Pete J. Ludovice	Chemical & Biomolecular Engineering	Scaffolded Molecular Modeling Educational Modules	$32,700
Indiana State University	Stephen F. Wolf	Chemistry	Incorporation of X-ray Fluorescence Spectrometry into an Interdisciplinary Undergraduate Study of the Environment	$29,000
Laboratories for Learning	Jeffrey M. Stern		Forensic Chemistry: Solving Crimes and Exploring Careers in the Chemical Sciences	$5,000
Maryland Science Center	Tonya M. Matthews	Exhibits	Innovating chemistry education and expanding the pipeline with open-access, immersive laboratory experiences at the Maryland Science Center	$35,000
New York Hall of Science	Martin Weiss	Science	Chemistry and the Search for Life Beyond Earth—a Hands-on Discovery Lab (working title)	$200,000
North Central College	Paul F. Brandt	Chemistry	Creative Workshops for K-12 Science Educators	$15,622
Oregon Museum of Science and Industry	Marilyn Johnson	Education	Chemistry in the K-8 Classroom	$20,000
Portland State University	Virginia E. Fox	Saturday Academy	Nanoscience and Chemistry Educational Outreach to Students of the Pacific Northwest	$18,000
Purdue University	William G. Bayley	Chemistry	Science Express-Bring Research Grade Instrumentation to High Schools in Indiana	$55,500
Science Buddies	Courtney Corda	Kenneth Lafferty Hess Family Charitable Foundation	Development and Operation of a "Chemistry Interest Area" for Science Buddies' "Topic Selection Wizard"	$45,000
Skidmore College	Raymond J. Giguere	Chemistry	Molecules That Matter: a unique, nationally touring museum exhibition focusing on the scientific and cultural significance of organic molecules in the twentieth century.	$55,000
The University of Chicago	Laurie J. Butler	Chemistry	The Pre- and Post-Freshman Summers: Strategic Mentoring for Careers in the Chemical Sciences	$70,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
University of California, Berkeley	John M. Prausnitz	Chemical Engineering	Education in Humanities and Social Relevance for Chemical Engineering Students: The Bronowski Project	$29,672
University of California, Santa Barbara	Daniel E. Morse	Molecular, Cellular and Developmental Biology	Environmental Chemical Signals Bring New Life to Coral Reefs: Development of New Interdisciplinary Teaching and Public Education	$19,982
University of California, Santa Barbara	Dale E. Seborg	Chemical Engineering	Modernizing the Instructional Chemical Engineering Laboratory at the University of California, Santa Barbara	$48,415
University of Colorado	Sandra L. Laursen	Ethnography & Evaluation Research (E&ER)	What Do We Know about What Works? Review of US Foundations, Programs in K-12 Chemistry Education	$63,388
University of Delaware	Joseph M. Fox	Chemistry and Biochemistry	The Path to Synthesis, An Animated Movie of the Enantioselective Total Synthesis of (-)-Strychnine.	$39,940
University of Massachusetts Amherst	Louis A. Roberts	Biochemistry and Molecular Biology	High-Throughput Instrumentation for a Novel Multidisciplinary Laboratory Course for Biochemistry, Chemistry, and Chemical Engineering Students	$40,000
University of Massachusetts Amherst	Julian F. Tyson	Chemistry	Embedding Research Experiences Early in the Undergraduate Chemistry Curriculum	$35,000
University of Puerto Rico-Arecibo Campus	Ana M. García	Physics/Chemistry	Project CHEMPRO: Incorporating Hands-On Experiences and Simulations in Chemical Processes to High School Students and Science Teachers	$32,300
Young Science Achievers, Inc.	Jorge L. Valdes	Board of Directors	The Young Science Achievers Chemistry Program	$10,000
2005				
Alliance for Education	Kathryn Kelsey	Exhibitions	Promoting K-12 Student Achievement in Chemistry	$22,120
American Chemical Society	Rudy M. Baum	Chemical & Engineering News	A summer science writing internship at Chemical & Engineering News	$6,000
American Chemical Society	Denise L. Creech	Membership Division	American Chemical Society Scholars Program, a scholarship, mentoring, and summer research program to encourage minority undergraduate students into degrees and careers in chemistry.	$100,000
American Chemical Society	John M. Malin	International Activities	Workshop on Air and Water Quality in the Middle East - A Bridge to Peace and International Development	$15,000

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Institution	Awardee	Department	Title	Award
American Psychological Association	Rena F. Subotnik	Education Directorate	THE CATALYST PROGRAM: Delineating the Path to Eminence in Chemical Science for Gifted Adolescents	$290,367
Bronx High School of Science	Fanny K. Ennever	Physical Science	Continuation of "Developing an inquiry-based laboratory curriculum for high-school chemistry courses	$27,500
Columbia University	George W. Flynn	Chemistry	Small Wonders: A Media Project on Nanoscale Science and Technology	$75,000
COSI Toledo	Samuel B. Dean	Exhibitions	Science Cafe	$28,200
Elementary Institute of Science (EIS)	Amelia Cacho	Science	Chemical Science Enrichment for Children	$25,378
Emory University	Stefan Lutz	Chemistry	Advanced undergraduate research laboratory - novel biocatalysts from combinatorial libraries of metagenomic DNA	$25,000
Filmmakers Collaborative	Stephen E. Lyons		To support Phase 1 of The Mystery of Matter, a primtime PBS television seriest on the history of chemistry.	$58,250
Grand Valley State University	Deborah G. Herrington	Chemistry	Target Inquiry - Bringing Inquiry to the Classroom Through Research, Inquiry Materials Adaptation, and Implementation: Professional Development for High School Chemistry Teachers	$116,750
Great Lakes Science Center	Jennifer C. Radwan	Public Programs	Mission Chemistry - Stimulating Interest and Increasing Understanding of Chemical Sciences at the Great Lakes Science Center.	$19,650
Hamilton College	Karen S. Brewer	Chemistry	Materials Chemistry Project Laboratories for Descriptive Inorganic Chemistry	$36,500
Harvey Mudd College	Hal Van Ryswyk	Chemistry	The Chemistry of Lead-Contamination from Vehicle Emissions: A Project in Science and Public Safety	$20,000
Oregon State University	Christine Pastorek	Chemistry	Introducing fiber optic coupled miniature CCD spectrometers in teaching chemistry	$28,349
Rockefeller University	Paul Nurse	President	Lederberg Chair	$100,000
Stonehill College	Louis Liotta	Chemistry	Project SUCCESS (Stonehill Undergraduate Collaboration with Community Educators and Secondary Students)	$28,959
The Discovery Museums	Denise LeBlanc	Education	Super Sleuths: Taking the Mystery Out of Chemistry	$16,296
The Pennsylvania State University	Paul C. Painter	Materials Science and Engineering	Development of a "Natural History of Polymers" CD	$18,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
University of Arkansas at Pine Bluff	Peter A. Iyere	Chemistry and Physics	Weekend/Summer Chemistry Reinforcement Program for Minority High School Students	$8,701
University of California, Berkeley	Robert G. Bergman	Chemistry	Chemistry in the Classroom: A Collaboration between UC Berkeley Chemistry Department and Community Resources for Science	$20,000
University of California, Davis	Mike Stieff	School of Education	Incorporating Simulations and Modeling in General Chemistry	$34,321
University of California, San Diego	Sherry L. Seethaler	Division of Physical Sciences	Molecules for the Media (Press Workshops and Website)	$50,000
University of California, Santa Barbara	Petra A. M. Van Koppen	Chemistry and Biochemistry	Outreach Program to Improve Educational Opportunities for K-12 students: A Hands-On Inquiry-Based Approach to Teaching Physical Science in the Fifth Grade	$24,661
University of California, Santa Barbara	Walter Kohn	Physics	*The Power of the Sun*	$78,060
University of Connecticut	Arthur W. Dimock	Chemistry	Summer Chemistry Blast!	$19,400
University of Notre Dame	Douglas A. Miller	Chemistry & Biochemistry	Application of XRF spectrophotometry in a chemistry based community service course	$20,000
University of South Dakota	Mary T. Berry	Chemistry	Bridging Native American Culture and Chemistry: Undergraduate Research in Natural Products Isolation and Derivatization.	$25,000
Virginia Polytechnic Institute and State University	Timothy E. Long	Chemistry	Mentoring Academic Growth in our Communities (MAGIC): Teaming Research Universities with Regional Science Museums	$48,000
2004				
American Chemical Society	Helen M. Free		Project 'Be Visible:' Part II - An initiative of the American Chemical Society The ACS PROGRESS/Dreyfus Lectureship	$54,000
Bronx High School of Science	Fanny K. Ennever	Physical Science	Developing an inquiry-based laboratory curriculum for high-school chemistry courses	$27,500
Case Western Reserve University	Lawrence M. Sayre	Chemistry	Introduction of modern mass spectrometry into the upper division undergraduate chemistry curriculum at CWRU	$40,000
Claremont McKenna College	Thomas Poon	Joint Science	Active learning through instructional technology: integration of Quicktime tutorials in the organic chemistry curriculum	$18,741
Concordia College	Drew Rutherford	Chemistry	Implementing student-designed research projects in the organic chemistry course: the pet molecule project	$10,500

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Earth & Sky Inc.	Deborah Byrd	Production	The Earth & Sky radio series' Chemistry Everyday Programming	$56,776
Hendrix College	Liz U. Gron	Chemistry	Filling the void: educating environmentally responsible citizens and scientists through green, environmental chemistry	$17,000
Illinois State University	Robert W. Quandt	Chemistry	Integrating Lasers and Computational Chemistry into Undergraduate Physical Chemistry Instruction	$27,000
Lafayette College	H. David Husic	Chemistry	Establishment of a consortium for educational and research opportunities in the chemical and molecular aspects of plant science	$15,000
Lee University	Johnny L. Evans	Natural Sciences and Mathematics	The Elementary EXperience - Chemistry Instructioal Toolbox Project(EXCIT!): A chemistry-based professional development program for K-5 teachers	$30,000
Massachusetts Institute of Technology	Stephen Lippard	Chemistry	Renovation of Dreyfus Chemistry Building lobby	$500,000
Saint Mary's College of California	Steven J. Bachofer	Chemistry	Extending the Quantum Theory and electron transitions curricular thread: benefiting Chemistry and the Community	$17,000
State University of New York, Binghamton	Eugene S. Stevens	Chemistry	Integration of polymer/plastics technologies across the curriculum	$19,972
Stevens Institute of Technology	Ajay K. Bose	Chemistry and Chemical Biology	Green Chemistry lab training for high schools: microwave reactios and grindstone chemistry	$35,000
University of California, Berkeley	Carolyn R. Bertozzi	Chemistry and Molecular and Cell Biology	UCB Chemical Biology Graduate Program	$11,400
University of California, Berkeley	Keith Alexander	Chemical Engineering	A proposal to develop a product development and manufacturing component to the PhD program in chemical engineering at Berkeley	$125,000
University of California, Los Angeles	Sarah H. Tolbert	Chemistry and Biochemistry	Enriching science education in LA Unified School District through hands-on experiments in nanoscience and nanotechnology	$35,000
University of California, Santa Barbara	Leroy E. Laverman	Chemistry and Biochemistry	An Integrated Laser Spectroscopy Platform for the Undergraduate Physical Chemistry Laboratory	$28,800
University of Illinois at Urbana-Champaign	James M. Lisy	Chemistry	Chemistry merit program for emerging scholars: addressing the manpower pipeline problem	$58,500
University of Minnesota	Michael T. Bowser	Chemistry	Introduction of capillary electrophoresis to an undergraduate teaching laboratory	$30,000

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Institution	Awardee	Department	Title	Award
Vassar College	Eric S. Eberhardt	Chemistry	Completing the central Dogma for undergraduate chemists and biochemists through Real-Time PCR	$35,000
Vassar College	Stuart L. Belli	Chemistry	Environmental mercury analysis as a bridge between analytical chemistry and social policy	$25,000
Wake Education Partnership	Jan Genzer	Chemical Engineering	Kenan Fellows: Partnering research and secondary education to advance the science of chemistry	$13,246
2003				
American Association for the Advancement of Science	Judith D. Kass	Education and Human Resources Programs	Strengthening the minority component of the chemical sciences and the AAAS Science and Engineering Fellows Program	$55,000
American Chemical Society	Mary M. Kirchhoff	Green Chemistry Institute	Green chemistry case studies for business schools: integrating science, economics, and the environment	$25,000
American Chemical Society	John M. Malin	International Activities	Conference support	$25,000
American Chemical Society	Madeleine Jacobs			$5,000
Central Michigan University	Bradley D. Fahlman	Chemistry	Development of supercritical fluid applications for undergraduate laboratories	$25,000
Cold Spring Harbor Laboratory	Rodney Miller	Institutional Advancement	Seeking the Secret of Life: DNA in NY	$35,000
DePauw University	David T. Harvey	Chemistry	An introductory project-based laboratory curriculum emphasizing thermodynamics, equilibria, and kinetics	$20,000
Georgia Southern University	Jeffrey Orvis	Chemistry	An alliance between chemists and teachers: bringing scientists into the primary and middle school classrooms of rural south Georgia	$25,000
Hamilton College	George C. Shields	Chemistry	The development of a national model for increasing the number of chemistry majors	$35,000
Juniata College	Richard R. Hark	Chemistry	Atomic Spectroscopy across the chemistry curriculum: introduction of x-ray fluorescence (XRF) and laser-induced breakdown spectroscopy (LIBS) instrumentation	$30,000
Mississippi University for Women	Nancy N. Bryson	Science and Mathematics	A spectroscopy workshop for high school girls	$13,872
Oklahoma School of Science and Mathematics	Jan F. Post	Chemistry	Tomorrow's chemists. A proposal for an in-house chemistry research program.	$9,500

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Institution	Awardee	Department	Title	Award
Pepperdine University	Jane A. Ganske	Natural Science Division	Improving our nation's air quality: a laboratory curriculum that empowers students to comprehend and communicate the issues	$25,000
Princeton University	Andrew B. Bocarsly	Chemistry	Partners in Science in the New York–New Jersey area	$174,000
Sciencenter	Robert G. Silberman	Exhibits	Sciencenter teenage docent interactive chemistry programs	$25,000
Stanford University	Curtis W. Frank	Chemical Engineering	Developing curricula and exhibits based upon cutting-edge polymer research	$31,000
The University of Arizona	Avelino E. Saez	Chemical and Environmental Engineering	Integrated interdisciplinary laboratory experience: environmentally benign process for encapsulating toxic wastes	$25,000
University of California, Irvine	Gregory A. Weiss	Department of Chemistry	Equipment for undergraduate chemical biology laboratory experiments	$27,500
University of Pennsylvania	Hai-Lung Dai	Chemistry	The Dreyfus Chemistry Education Resource Center: a catalyst for implementing excellence in the teaching and learning of chemistry	$40,000
University of Washington	Daniel T. Schwartz	Chemical Engineering	Integrating microfluidic experiments in the chemical engineering curriculum	$25,000
Villanova University	Carol A. Bessel	Chemistry	Incorporation of capillary electrophoresis into the arts and sciences curriculum	$22,500
Virginia Polytechnic Institute and State University	Gary Long	Chemistry	Creating educational partnerships with local industry and local school systems via the Mobile Chemistry Laboratory of Virginia Tech	$25,000
Westmont College	Stanley E. Anderson	Chemistry	Using the diversity of nuclear nagnetic nesonance applications to develop student versatility and ingenuity	$30,000
Wheaton College	Laura J. Muller	Chemistry	A FT-IR microscope for trace component analysis of paint to rocks and food to microbes	$30,000
Yale University	Alanna Schepartz	Chemistry	Marie Curie symposium	$5,000

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Institution	Awardee	Department	Title	Award
2002				
Allegheny College	Martin J. Serra	Department of Chemistry	The development of an undergraduate bioinformatics and molecular modeling course	$18,000
American Chemical Society	Yvonne D. Curry	Department of Diversity Programs	American Chemical Society Scholars Program	$75,000
Barry University	George H. Fisher	Physical Sciences	Cooperative chemical education efforts for pre- and in-service elementary school teachers	$18,000
Bryn Mawr College	Sharon J. Burgmayer Nieter	Department of Chemistry	Development of integrated environmental water chemistry laboratory modules	$30,000
College of the Holy Cross	Jane M. Van Doren	Department of Chemistry	ChemShare - a lending library of chemistry experiments for K-12 science teachers	$2,490
Diablo Valley College	Ronald J. Rusay	Department of Chemistry	Crystals in the classroom: lasers, energy, research and chemistry	$29,900
EarthTalk Inc.	Deborah Byrd	The Earth & Sky Radio Series	Earth & Sky radio series: "Chemistry Everyday" programming	$54,021
Florida Atlantic University	Deborah W. Louda	Department of Chemistry and Biochemistry	Project ChemBOND: Integrated laboratory exercises for general chemistry	$15,000
Florida Institute of Technology	Jonathan E. Whitlow	Department of Chemical Engineering	A tutorial for process simulation use throughout the chemical engineering curriculum	$16,000
Hunter College of the City University of New York	Lou Massa	Chemistry	Science and the Written Word: television programs on the basic science surrounding chemical and biochemical warfare	$9,000
Indiana University	Kenny B. Lipkowitz	Department of Chemistry	Chemical informatics in the laboratory curriculum	$43,744
Iota Sigma Pi	Sharon V. Vercellotti		Centennial history of the Iota Sigma Pi honor society for women in chemistry, 1902-2002	$20,000
Kent State University	Robert J. Twieg	Department of Chemistry	Real-world research experience in undergraduate materials chemistry education	$46,000
Le Moyne College	Carmen J. Giunta	Department of Chemistry	Quantitative exercises based on classic chemistry papers	$8,000
Michigan Technological University	Paul Charlesworth	Department of Chemistry	Visually enhanced integrated chemistry learning environment	$19,000
National Academy of Sciences	Douglas J. Raber	Board on Chemical Sciences and Technology	Minorities in the chemical workforce: diversity models that work	$50,000
New York Hall of Science	Alan J. Friedman	Exhibitions	Chemistry education programs	$50,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Oregon State University	Philip R. Watson	Department of Chemistry	Seeing is believing - imaging atoms and molecules in lecture and laboratory	$10,301
Portland State University	David W. McClure	Department of Chemistry	Integrated advanced laboratory course in materials chemistry	$65,000
Quinnipiac University	Andri L. Smith	Department of Chemistry	Web-based case studies and tutorials for use across the chemistry curriculum	$12,500
Seton Hall University	Valerie J. Kuck	Women's Studies	The training and hiring of chemical scientists: a study of gender issues	$49,218
St. Ambrose University	Margaret J. Legg	Department of Chemistry	"Kids and Chemistry" workshop for fourth and fifth grade teachers	$12,190
State University of New York at Geneseo	Kazushige Yokoyama	Department of Chemistry	A computer-based interactive lecture system for undergraduate physical chemistry	$7,000
State University of New York at Stony Brook	Kathlyn A. Parker	Chemistry	Academic chemistry enhancement at Stony Brook - the ACES Project	$6,917
Stevens Institute of Technology	Matthew R. Libera	Chemical, Biochemical, and Materials Engineering	Internet-based experiments using remote instrumentation	$20,500
Texas Tech University	David M. Birney	Department of Chemistry and Biochemistry	Incorporation of parallel, combinatorial and solid-phase organic synthesis in the undergraduate organic chemistry laboratory	$31,573
The Royal Institution of Great Britain	Frank A. James	Collections	Enhancement of the displays of the Royal Institution's Michael Faraday Museum	$50,000
The University of Arizona	Paul Blowers	Chemical and Environmental Engineering	Integration of green chemistry into chemical engineering design	$26,000
Trinity University	Nancy S. Mills	Department of Chemistry	Establishment of a regional NMR site	$50,000
University of Arizona	Vicente A. Talanquer	Department of Chemistry	Vertical integration of the chemistry curriculum: an internet application	$20,000
University of California, Irvine	William J. Evans	Department of Chemistry	Incorporation of powder x-ray diffraction methods into the undergraduate chemistry curriculum	$30,000
University of Colorado	David Walba	Department of Chemistry and Biochemistry	Cool and creative chemistry: outreach programs to middle and high school students	$27,939
University of Oregon	Frederick W. Dahlquist	Department of Chemistry	A new educational program for preparing prospective college chemistry teachers	$13,738

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
University of Rochester	Christopher Dellago	Department of Chemistry	Computational methodologies in the chemistry curriculum	$16,335
University of Washington	Paul B. Hopkins	Department of Chemistry	Unifying and broadening the Ph.D. in the chemical sciences: preparing chemical leaders of tomorrow	$50,000
Wabash College	Ann T.S. Taylor	Department of Chemistry	Incorporation of high-throughput microtiter plate methods into a biochemistry laboratory sequence	$13,675
Washington State University	Kerry W. Hipps	Department of Chemistry and Materials Science	A Java-based questioning and testing tool for first year chemistry and physics courses	$24,000
Wesleyan University	Joseph W. Bruno	Department of Chemistry	Polymer synthesis and characterization in the laboratory curriculum	$26,057
WGBH Educational Foundation	Stephen Lyons	WGBH Science Unit/NOVA	The Percy Julian biography project	$25,500
2001				
Abilene Christian University	Kim L. Pamplin	Department of Chemistry	Real-world determination of pesticides in a watershed: a new approach to learning separation techniques in analytical chemistry	$25,000
Albright College	Pamela G. Artz	Department of Chemistry	A spectropolarimeter for use in a project oriented, biophysical chemistry laboratory aimed at the study of aspects of macromolecular structure and function	$20,000
American Association for the Advancement of Science	Judy Kass	Directorate of Education and Human Resources	Strengthening the chemistry component of the AAAS Mass Media Science and Engineering Fellows Program	$75,000
Beloit College	Brock Spencer	Department of Chemistry	Wireless technology for inquiry-based learning in introductory chemistry classrooms and laboratories	$30,000
Bethel College	Richard P. Zerger	Department of Chemistry	Web-based uv-visible and Raman spectroscopy for college and pre-college chemistry instruction	$19,308
Carleton College	Jerry R. Mohrig	Department of Chemistry	Integration of capillary column gas chromatography into project-oriented laboratories	$25,000
Chemical Heritage Foundation	Leo B. Slater	Department of Historical Services	Project to preserve and broaden access to the papers of Robert Burns Woodward	$19,530
College of Charleston	Jason S. Overby	Department of Chemistry and Biochemistry	The undergraduate inorganic experience for the 21st century	$6,358

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Eastern Michigan University	Donald M. Snyder	Department of Chemistry	Development of new undergraduate polymer chemistry laboratory experiments based on multi-angle laser light scattering	$10,000
Exploratorium	Charles C. Carlson	Life Sciences	Museum exhibits on photosynthesis and oxidative respiration	$30,000
Florida Atlantic University	Jerome E. Haky	Department of Chemistry and Biochemistry	Project ChemBOND: framework for improving student understanding, performance and retention in general chemistry	$25,000
Franklin and Marshall College	Phyllis A. Leber	Department of Chemistry	Concept-based, tiered laboratory experiences in environmental chemistry for the first year course	$24,600
Friends University	J. C. Moore	Department of Chemistry	Making connections: a program to encourage high school students to pursue careers in chemistry	$18,500
Gordon Research Conferences	Seth M. Cohen	Department of Chemistry	Gordon graduate research seminar: bioinorganic chemistry	$15,000
Hamilton College	Timothy E. Elgren	Department of Chemistry	An integrative, investigative, advanced chemistry laboratory course	$25,000
Hofstra University	Nanette M. Wachter-Jurcsak	Department of Chemistry	Teacher and student development in rural schools through community environmental research	$27,800
Iowa State University	Olivia M. A. Madison	University Library	Profiles of women in chemistry: the post-war generation	$25,000
John Carroll University	Mark J. Waner	Department of Chemistry	Integration of fluorescence spectroscopy into chemistry teaching and research	$20,000
Louisiana State University	Robin L. McCarley	Department of Chemistry	Development of self-study preparatory digital videos for analytical chemistry laboratories	$61,832
Lycoming College	Chriss E. McDonald	Department of Chemistry	Incorporation of mass spectrometric based-investigational experiments into the chemistry curriculum	$20,000
Michigan State University	Holly M. Bevsek	Lyman Briggs School	A new model to increase student learning using lecture demonstrations in general chemistry	$22,278
Mississippi College	Edward J. Valente	Department of Chemistry	Modern magnetic resonance spectroscopy for an enhanced chemistry curriculum and support of local two-year college organic chemistry	$50,000
Mount Holyoke College	Darren G. Hamilton	Department of Chemistry	Acquisition of a circular dichroism spectrometer: introduction of new instrumentation to an advanced laboratory program	$15,000
Muhlenberg College	Marsha R. Baar	Department of Chemistry	Chemistry meets art	$20,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Occidental College	Chris L. Craney	Undergraduate Research Center	Occidental-community college faculty collaborative chemistry research initiative	$30,000
Ohio Wesleyan University	Dale J. Brugh	Department of Chemistry	Exploring molecular potential energy surfaces in physical chemistry by integrating computational methods and pure rotational spectroscopy	$13,458
Oregon State University	Walter Loveland	Department of Chemistry	Living textbook of nuclear chemistry	$10,000
Rice University	Andrew R. Barron	Department of Chemistry	Entrepreneurship for chemical sciences	$17,500
Rider University	Alexander Grushow	Department of Chemistry and Biochemistry	NMR Collaborative Training Partnership (NMR-CTP)	$31,670
Sciencenter	Charles H. Trautmann	Exhibitions	The chemistry investigators: interactive chemistry programs for museum visitors	$24,134
State University of New York, College at Plattsburgh	Roger K. Sandwick	Department of Chemistry	Chemistry outreach to a rural area	$30,000
Syracuse University	Alan H. McGowan	Newhouse School of Public Communications	A program for the media in proteomics	$17,000
Texas A&M University	David M. Ford	Department of Chemical Engineering	Laboratory course in computational chemistry and molecular modeling for engineers	$25,000
Texas Tech University	Theodore F. Wiesner	Department of Chemical Engineering	The virtual chemical engineering unit operations laboratory	$58,715
Texas Tech University	Gregory I. Gellene	Department of Chemistry and Biochemistry	Toward the seamless chemistry curriculum: computational materials modeling and its experimental applications in the physical chemistry and materials undergraduate laboratories	$29,262
The Foundation Center	Sara L. Engelhardt	President		$3,750
The Johns Hopkins University	Michael E. Paulaitis	Department of Chemical Engineering	Virtual laboratories for chemical engineering education based on state-of-the-art real-time dynamic simulations	$35,000
The University of Alabama	Christopher S. Brazel	Department of Chemical Engineering	Development of an undergraduate bioprocess laboratory for chemical engineering	$15,000
University of California, Santa Barbara	Geoffrey F. Strouse	Department of Chemistry and Biochemistry	Implementing a “scenario-block” curriculum in the analytical laboratory	$30,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
University of Detroit Mercy	David J. R. Brook	Department of Chemistry and Biochemistry	Implementing a project-based curriculum with FT-NMR spectrsocopy	$20,000
University of Illinois at Springfield	Gary L. Trammell	Department of Chemistry	Enhancing student-centered learning in an interdisciplinary chemistry/biology general education course	$20,000
University of Maine	Bruce L. Jensen	Department of Chemistry	Experiment development in the organic chemistry laboratory for spectroscopic and molecular modeling studies	$20,000
University of Massachusetts, Amherst	Molly Fitzgerald-Hayes	Department of Biochemistry and Molecular Biology	MyDNA: How to "Speak DNA" and understand your genes	$30,000
University of Massachusetts, Amherst	Howard D. Stidham	Department of Chemistry	An introduction to scientific research in the physical chemistry laboratory	$12,000
University of Massachusetts at Dartmouth	John Schaumloffel	Department of Chemistry and Biochemistry	Environmental analytical chemistry throughout the curriculum	$2,654
University of Missouri, Columbia	Rainer E. Glaser	Chemistry	Chemistry is in the news	$25,000
University of New Hampshire	Howard R. Mayne	Department of Chemistry	A discovery-based approach to improving the quantitative analysis course using shared group data	$19,630
University of Rhode Island	Brett L. Lucht	Department of Chemistry	Upgrade of an NMR spectrometer and incorporation of NMR into the sophomore organic laboratory curriculum	$15,000
University of South Carolina - Aiken	Ann M. Willbrand	Department of Chemistry	Incorporating FT-NMR into the chemistry curriculum	$26,000
University of Texas at El Paso	James M. Salvador	Department of Chemistry	Polarizers from gel glue	$20,000
University of Washington	Eric M. Stuve	Department of Chemical Engineering	A fuel-cell laboratory for curricular integration in chemical engineering	$29,797
Ursinus College	Holly C. Gaede	Department of Chemistry	Using pulsed-field-gradient nuclear magnetic resonance spectroscopy to enhance undergraduate chemical education	$25,000
Valparaiso University	Michael S. Bradley	Department of Chemistry	Biophysical applications of fluorescence spectroscopy	$18,000
Villanova University	Randy D. Weinstein	Department of Chemical Engineering	Integration of a gas chromatography system into the undergraduate laboratory	$25,000
Wake Forest University	Angela G. King	Department of Chemistry	Revitalizing introductory chemistry with technology	$25,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Washington University	Babu Joseph	Department of Chemical Engineering	Chemical engineering education for the 21st century: development of an IT-based design-oriented curriculum	$51,250
Wesleyan University	Albert J. Fry	Department of Chemistry	NMR spectroscopy in the chemistry curriculum	$30,000
Westfield State College	Patricia A. DePra	Department of Physical Science	Polymers that save lives: fire prevention and fire fighting	$15,000
Wofford College	Jameica B. Hill	Department of Chemistry	The theoretical beauty and experimental excitement of chemistry: a summer program to inspire and motivate young scholars to become chemists	$25,000
2000				
Bowdoin College	John L. Howland	Department of Biology and Biochemistry	Development of a laboratory course in biochemisty and molecular biology	$15,000
California Institute of Technology	John D. Roberts	Department of Chemistry		$30,000
California State University, Chico	Cindy L. Phelps	Department of Chemistry	Making the match: how chemists find out what it is and how much is there	$28,657
Clarke College	Mary L. Caffery	Department of Chemistry	HPLC instrumentation for problem-based learning in chemistry	$15,000
College of Southern Idaho	Rexford K. Widener	Department of Physical Science	Enhancing the chemical sciences at the two-year college: integrating NMR across the curriculum	$25,000
Cornell University	Roald Hoffmann	Department of Chemistry	A rehearsed, staged reading of “Oxygen,” a new play	$25,000
Cornell University	Roald Hoffmann	Chemistry	A rehearsed, staged reading of “Oxygen,” a new play (Part 2)	$25,000
Dartmouth College	John S. Winn	Department of Chemistry	A parallel computer cluster for numerically intensive chemical computation	$25,000
EarthTalk, Inc.	Deborah L. Byrd	Earth & Sky Radio Series	Chemistry for the future: thirty programs for the Earth & Sky radio series in 2000	$38,157
Furman University	Jeffrey T. Petty	Department of Chemistry	Teaching spectroscopy in the undergraduate curriculum using lasers	$46,000
Gordon Research Conferences	Megan E. Núñez	Department of Chemistry and Chemical Engineering California Institute of Technology	Gordon conferences graduate research seminar in bioinorganic chemistry	$7,500

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
Harvard University	James G. Anderson	Department of Chemistry and Chemical Biology	Development of an academic chemical research database	$10,585
Hathaway Brown School	Patricia K. Hunt	Science Department	PEACE (Polymer Erosion And Contamination Experiment): A space shuttle experiment conducted by female secondary students to solve significant low earth orbit erosion and contamination problems	$34,120
Hunter College of the City University of New York	Maria Tomasz	Department of Chemistry	Modern biochemistry and the scientific method: a new approach	$20,000
Illinois State University	William J. F. Hunter	Department of Chemistry	An online chemistry teaching assistant help service in general chemistry	$14,256
Indiana University	Adam Allerhand	Department of Chemistry	Use of wireless technology for molecular visualization and research-style learning in introductory chemistry classrooms	$20,000
Kingston City Schools Consolidated	Jane K. Franklin	Secondary Science	Project CLEANAir - chemical assessment of air quality	$25,000
Knox College	Lawrence E. Welch	Department of Chemistry	Adding a temporal dimension to fluorescence spectroscopy in the undergraduate setting	$39,000
La Roche College	Don T. Fujito	Department of Chemistry	Enhancing undergraduate and high school chemistry education through the CHEMSOLVE program	$37,500
LaGuardia Community College of the City University of New York	Clara Wu	Natural & Applied Sciences Department	Instructional enhancement of the fundamentals of chemistry	$40,000
Massachusetts Institute of Technology	Felice Frankel	Department of Chemistry	Envisioning science	$30,000
Miami University	Richard T. Taylor	Department of Chemistry and Biochemistry	Combinatorial chemistry in organic chemistry laboratory instruction	$20,000
Millikin University	George D. Bennett	Department of Chemistry	Green chemistry: using optical activity to introduce chemistry and other majors to environmentally benign laboratory methods	$10,000
Montana Science Institute	Rhoda E. Craig	Department of Chemistry and Biology	Enhanced educational opportunities for high school teachers	$2,864
Museum of Science, Boston	Douglas B. Smith	Exhibits	Making models	$24,000
National Academy of Sciences	Douglas Raber	Board on Chemical Sciences and Technology	The Chemical Sciences Roundtable	$50,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
National Academy of Sciences	Douglas Raber	Board on Chemical Sciences and Technology	Challenges for the chemical sciences in the 21st century	$50,000
New Jersey Institute of Technology	Jeannette E. Brown	Center for Pre-College Programs	Specialty site in the chemical and environmental sciences	$48,800
New Mexico Junior College	Vic Berner	Department of Chemistry and Astronomy	Microscale chemistry workshops: chemical educators learning an environmentally sound pedagogy for training tomorrow's chemists	$10,000
New York University	Neville R. Kallenbach	Department of Chemistry	The molecules of life: a new approach to chemistry education for non-majors	$35,000
North Carolina State University	David F. Ollis	Department of Chemical Engineering	Chemical engineering laboratory in electronic and photonic devices	$30,000
North Carolina State University	Steven Peretti	Department of Chemical Engineering	Case studies for chemical engineering design	$16,467
Northern Arizona University	Paul F. Torrence	Department of Chemistry	Chemistry and genomics-driven drug discovery	$25,199
Northwestern University	Robert C. Michaelson	Science and Engineering Library	History of the chemical sciences in the Chicago area	$18,000
Princeton University	Andrew B. Bocarsly	Department of Chemistry	Partners in science in the New York/New Jersey area	$350,000
Rensselaer Polytechnic Institute	Wilfredo Colón	Department of Chemistry	Summer research opportunity program for minority high school students	$67,600
Rice University	John S. Hutchinson	Department of Chemistry	Interactive teaching of high school chemistry via case studies in concept development: teacher workshop and web-based diagnostic assessment	$43,113
Rockefeller University	David Fushman	Laboratory of Physical Biochemistry	Virtual NMR spectrometer: a computer tool for learning nuclear magnetic resonance spectroscopy	$60,000
Rutgers, The State University of New Jersey	Balaji Narasimhan	Department of Chemical and Biochemical Engineering	Innovative curricula in polymer science and engineering using enabling computer and World Wide Web technologies	$25,000
San Joaquin County Office of Education	Judi Wilson	Educational Services	Chemistry is TOPS: chemistry education for elementary students by retired scientists	$12,000
Seattle University	Kristen J. Skogerboe	Department of Chemistry	Using the world of the working chemist to reform the quantitative analysis laboratory	$20,000
South Dakota School of Mines and Technology	Cathleen J. Webb	Department of Chemistry and Chemical Engineering	Automated laboratory reactor with data acquisition	$25,000

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
State University of New York at Buffalo	David G. Hangauer	Department of Medicinal Chemistry	Parallel synthesis equipment for combinatorial chemistry laboratory training	$49,500
Sweet Briar College	Jill N. Granger	Department of Chemistry	Real-world chemistry laboratories for grades 6-12	$30,000
Syracuse University	Philip N. Borer	Department of Chemistry	Illustrating dynamical and statistical effects in structural and physical biochemistry	$25,000
The Foundation Center	Sara L. Engelhardt		Program Support	$3,750
The University of Vermont	Michael J. Strauss	Department of Chemistry	The "Magic of Chemistry" program: university - K-6 school collaboration to improve elementary education in chemistry	$18,177
Towson University	Lev R. Ryzhkov	Department of Chemistry	Chemical sciences summer institute for young women	$25,000
Tri County Area Schools	Randall J. Cook	Department of Biochemistry	Water, water, everywhere, but is it fit to drink?	$5,390
University of Arkansas	Wally Cordes	Department of Chemistry/Biochemistry	An outreach program for a structure-determination laboratory experiment	$19,900
University of California, Santa Barbara	Duane W. Sears	Department of Moleculuar, Cellular, and Developmental Biology	Development of an inquiry-based biochemistry curriculum in collaboration with biochemistry students	$18,064
University of Illinois at Urbana-Champaign	Zaida Luthey-Schulten	Department of Chemistry	An undergraduate three-dimensional visualization facility for chemical biology	$58,353
University of Massachusetts, Amherst	C. Peter Lillya	Department of Chemistry	Web-delivered learning for organic chemistry students	$50,801
University of Massachusetts at Lowell	James E. Whitten	Department of Chemistry	The development of affordable blue diode laser and light-emitting diode chemistry experiments for high school and undergraduate teaching laboratories	$30,000
University of North Carolina at Wilmington	Ned H. Martin	Department of Chemistry	Enhancing computational capabilities in chemistry	$30,000
University of Oregon	David R. Tyler	Chemistry	An integrated polymer synthesis, processing, and characterization laboratory	$34,106
University of Puerto Rico-Mayaguez Campus	Astrid J. Cruz	Department of Chemistry	Incorporating computational chemistry into the chemistry and chemical engineering curriculum	$3,346
University of Scranton	Michael C. Cann	Department of Chemistry	Greening across the chemistry curriculum	$20,000
University of Southern California	Chi H. Mak	Department of Chemistry	A consortium for technology in teaching chemistry for Southern California high schools	$25,255

Special Grant Program in the Chemical Sciences

Institution	Awardee	Department	Title	Award
University of Southern Mississippi	Lon J. Mathias	Department of Polymer Science	Expeditions to the real world of chemistry and polymers	$40,000
University of Wyoming	Jeffery L. Yarger	Department of Chemistry	Integration of differential scanning calorimetry into undergraduate laboratories	$15,000
Virginia Polytechnic Institute and State University	Barbara B. Bunn	Department of Chemistry	A mobile chemistry laboratory: an institutional resource to enhance chemistry education in rural areas	$50,000
WGBH Educational Foundation	Stephen E. Lyons	NOVA/WGBH Science Unit	The Percy Julian biography project	$97,560