



**NATIONAL SCIENCE FOUNDATION**

**4201 Wilson Boulevard, Arlington VA 22230**

**Division of Earth Sciences  
Instrumentation and Facilities Program**

*Summary of All FY-2005 Actions Leading to AWARDS*

<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY05 Funding by IF/months</b>	<b>Comments</b>
Alaska FREYMUELLER, Jeffrey T.	"Equipment Support: Mechanisms of Postseismic Deformation following the 2002 Denali Fault Earthquake"	EAR0323156	498,344/36	161,860/12	3rd yr incr on 3-yr cont grant for FS
Amer Museum of Nat Hist MANDEVILLE, Charles	"MRI: Upgrades to AMNH-LDEO SX100 Electron Microprobe"	EAR0520821	190,259/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 190,259
Arizona GEHRELS, George E.	"Facility Support: Multi-User Facility for U-Th-Pb Geochronology Utilizing a Laser-Ablation Multicollector ICPMS"	EAR0443387	582,557/36	49,760/12	1st yr incr on 3-yr cont grant for FS
Arizona JULL, A. J. Timothy	"NSF Arizona AMS Laboratory: Research and Operational Support"	EAR0446861	4,025,044/60	395,264/12	1st yr incr on 5-yr cont grant for FS
Arizona LIFTON, Nathaniel A.	"Collaborative Research: A Proposal for the Cosmic-Ray produced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345150	55,613/12	55,613/12	IF split-funding for ITD on GG grant
Arizona QUADE, Jay	"Construction of a Low-Level 14C facility at the University of Arizona"	SBE0404823	84,825/12	84,825/12	IF split-funding for EA on SBE/BCS grant
Arizona State ANBAR, Ariel D.	"Technician Support: ICP-MS research in the W. M. Keck Foundation Laboratory for Environmental Biogeochemistry, Arizona State University. Phase I"	EAR0520648	224,994/36	74,998/12	1st yr incr on 3-yr cont grant for TS
Arizona State BUSECK, Peter R.	"Technician Support for Geoscience Research in Transmission Electron Microscopy (Phase II)"	EAR0418960	150,000/24	75,000/12	2nd yr incr on 2-yr cont grant for TS
Arkansas MATTIOLI, Glen S.	"Collaborative Research: Facility Support for the CALIPSO Borehole Observatory, Soufriere Hills Volcano, Montserrat"	EAR0523097	663,240/60	99,999/12	standard grant for FS
Boise State SCHMITZ, Mark D.	"MRI: Acquisition of a Thermal Ionization Mass Spectrometer for Investigations in High-precision Geochronology and Isotope Geochemistry"	EAR0521221	621,000/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 621,000
Boston University BAXTER, Ethan F.	"MRI: Acquisition and Development of a Thermal Ionization Mass Spectrometer Facility at Boston University"	EAR0521266	749,814/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 502,770; OIA/MRI/OCE = 58,000 and OPP/AGG = 30,000
Boston University PLANK, Terry A.	"Technician Support: Laser Ablation and Inductively Coupled Plasma Laboratories - Phase I"	EAR0233712	210,000/36	35,000/12	3rd yr incr on 3-yr cont grant for TS; split-funded w/ OCE/MGG = 35,000
Boston University VALLADARES, Cesar E.	"MRI: Collaborative Research: Development of the First Distributed Observatory Dedicated to Studies of the Low Latitude Ionosphere and Atmosphere"	ATM0521487	1,272,715/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 188,713

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Bryn Mawr College WEIL, Arlo B.	"Acquisition of New Paleomagnetic Lab Equipment for Bryn Mawr College, Pennsylvania"	EAR0418663	114,447/12	114,447/24	standard grant for EA
California - Berkeley DIETRICH, William E.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM)"	EAR0518615	818,574/36	180,000/12	1st yr incr on 3-yr cont grant for FS
California - Davis VEROSUB, Kenneth L.	"Enhancing the Capabilities for Characterization of Magnetic Materials at the University of California, Davis [supplement to EAR-0216346]"	EAR0505852	35,000/0	35,000/0	IF suppl for EA on EAR/MRI grant
California - Los Angeles KAVNER, Abby	"Development of a High Pressure Mineral Physics and Chemistry Laboratory at UCLA"	EAR0318488	188,751/12	147,174/12	standard grant for EA
California - Los Angeles MCKEEGAN, Kevin D.	"Facility Support: The UCLA National Ion Microprobe"	EAR0421795	1,084,730/36	443,924/12	2nd yr incr on 3-yr cont grant for FS
California - Riverside FINKEL, Robert C.	"Collaborative Research: A Proposal for the Cosmic-Ray produced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345932	45,500/12	45,500/12	IF split-funding for ITD on GG grant
California - Riverside GREEN, Harry W.	"Technical Support for a Dual Beam Focused Ion Milling System for TEM Foil Preparation + 3D Chemical Analysis"	EAR0521896	209,506/18	75,000/12	1st yr incr on 1.5-yr cont grant for TS
California - Riverside GREEN, Harry W.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135411	804,511/60	50,000/12	IF split-funding for Other on PH grant
California - Riverside PARK, Stephen K.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrument Facility"	EAR0236468	146,411/36	26,734/12	3rd yr incr on 3-yr cont grant for FS
California - San Diego STAUDIGEL, Hubertus	"Geochemical Earth Reference Model: GERM Workshop and Database Development"	EAR0230121	47,586/24	47,586/12	IF split-funding for ITD on CH grant
California - San Diego (SIO) AGNEW, Duncan Carr	"Modernization of Existing Long-Base Strainmeters: Instrument Upgrades for Improved Data"	EAR0447343	112,500/12	28,905/12	standard grant for EA
California - San Diego (SIO) CONSTABLE, Catherine	"Collaborative Proposal for Facility Support: Development and Maintenance of the Magnetism Information Consortium (MagIC)"	EAR0318672	1,155,889/36	- 0 -	split-funding for GI on PH grant; split-funded w/ EAR/GI = 94,998
California - San Diego (SIO) DAVIS, J. Paul	"Upgrading of Infrastructure for Computational Geophysics"	EAR0421861	214,614/12	214,614/36	standard grant for EA
California - San Diego (SIO) DRISCOLL, Neal W.	"Origin of Continental Margin Bedforms: Slides or Drift Deposits, a Rock Magnetic Approach"	MGG0531430	10,000/12	10,000/12	IF split-funding for EA on OCE/MGG grant
California - San Diego (SIO) KOPPERS, Anthony A.	"Updating the ArArCALC Software Package for Advanced Data Reduction in 40Ar/39Ar Geochronology"	EAR0447175	98,593/24	- 0 -	standard grant for GI; split-funded w/ EAR/GI = 98,593
California - San Diego (SIO) ZUMBERGE, Mark A.	"Development of a New Broadband Optical Seismometer"	EAR0352877	602,113/36	108,097/12	2nd yr incr on 3-yr cont grant for ITD
California - Santa Cruz SCHWARTZ, Susan Y.	"Collaborative Research: Acquisition of Continuous GPS and Borehole Geophysical Networks for Investigations of Seismogenic Processes at the Costa Rica Subduction Zone"	EAR0502488	189,645/24	12,616/12	1st yr incr on 2-yr cont grant for EA
California - Los Angeles MCKEEGAN, Kevin D.	"Facility Support: The UCLA National Ion Microprobe [supplement to EAR-0421795]"	EAR0540012	15,540/0	15,540/0	IF suppl for Other on IF grant

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Caltech EILER, John M.	"Technician Support for the Laboratories for Stable Isotope Geochemistry at Caltech / Period 2"	EAR0345905	97,832/24	50,108/12	2nd yr incr on 2-yr cont grant for TS
Caltech GURNIS, Michael C.	"Computational Infrastructure for Geodynamics, CIG"	EAR0551368	9,713,473/60	- 0 -	2nd yr incr on 5-yr CAGR EAR-0426271 for GI; split-funded w/ EAR/GI = 1,500,000
Caltech TROMP, Jeroen	"MRI: Acquisition of a 864-node PC cluster for Caltech Computational Geoscience"	EAR0521699	1,783,411/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 1,531,724
Carnegie Inst of Wash-DTM CARLSON, Richard W.	"ITR/IM (EAR)- Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database [supplement to EAR-0312533]"	EAR0509017	14,130/0	- 0 -	suppl for GI on CH grant; split-funded w/ EAR/GI = 2,041
Carnegie Inst of Wash-GL HEMLEY, Russell J.	"Development of the Single-Crystal Diamond from Chemical Vapor Deposition for the Next Generation High-Pressure Devices [supplement to EAR-0421020]"	EAR0544943	100,000/12	50,000/0	IF suppl for ITD on EAR/MRI grant; split-funded w/ MPS/DMR = 50,000
Chicago GHIORSO, Mark S.	"Collaborative Research: A New Experimental Database for Improving and Extending MELTS"	EAR0440121	98,138/24	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 50,000
Chicago RIVERS, Mark L.	"GeoSoilEnviroCARS: A National Resource for Earth, Planetary and Environmental Science Research At the Advanced Photon Source"	EAR0217473	9,585,256/60	1,700,000/12	5th yr incr on 5-yr cont grant for FS
Colorado ANDERSON, Suzanne P.	"Acquisition and Upgrade of Instruments for Research on Water-Rock Interaction and Sediment Transport"	EAR0447129	96,686/12	56,335/12	standard grant for EA
Colorado FARMER, G. Lang	"Proposal for a High Precision Thermal Ionization Mass Spectrometry Workshop ("Reinvigorating TIMS")"	EAR0437642	35,294/12	35,294/12	standard grant for EA
Colorado FARMER, G. Lang	"ITR/IM (EAR) - Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database [supplement to EAR-0313310]"	EAR0548110	14,679/0	- 0 -	suppl for GI on TE grant; split-funded w/ EAR/GI = 14,679
Colorado SMYTH, Joseph R.	"Upgrading of Single-Crystal X-Ray Diffraction Facility"	EAR0444183	145,806/18	145,806/24	standard grant for EA
Colorado School of Mines SCALES, John A.	"Development of New Instrumentation and Techniques for Real-Time Spatial Interferometry of Geophysical Processes"	EAR0345935	139,600/24	139,600/24	standard grant for ITD
Colorado State STEIN, Holly J.	"Technician Support: Phase I Technician Support for AIRIE Program TIMS Laboratory"	EAR0451693	225,000/36	75,000/12	1st yr incr on 3-yr cont grant for TS
Columbia - LDEO LEHNERT, Kerstin A.	"Collaborative Project: Facilities Support: Earthchem: Advancing Data Management in Solid Earth Geochemistry"	EAR0522195	1,062,311/60	- 0 -	1st yr incr on 4-yr cont grant for GI; split-funded w/ OCE/MGG = 226,636
Columbia - LDEO LEHNERT, Kerstin A.	"SESAR Workshop: Designing Interoperability for Sample-based Data Management via the International Geo Sample Number IGSN"	EAR0514551	9,982/12	- 0 -	split-funding for GI on SGP grant; split-funded w/ EAR/GI = 9,982
Columbia - LDEO LEHNERT, Kerstin A.	"SedDB: An Online Information System for Sediment Geochemistry"	OCE0453958	150,000/12	- 0 -	split-funding for GI on OCE grant; split-funded w/ EAR/GI = 150,000

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Columbia - LDEO SCHAEFER, Joerg M.	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345835	158,683/12	158,683/12	IF split-funding for ITD on GG grant
Connecticut OR, Dani	"Diffusional Constraints Affecting Microbial Distribution and Activity in Unsaturated Porous Media"	EAR0409364	25,000/12	25,000/12	IF split-funding for Other on HS grant
Dartmouth FENG, Xiahong	"Technician Support: Watershed Studies at Dartmouth College [Phase II]"	EAR0418809	149,503/24	75,796/12	2nd yr incr on 2-yr cont grant for TS
Delaware State GWANMESIA, Gabriel D.	"Collaborative Research: Elasticity Grand Challenge of the COMPRESS Initiative"	EAR0135431	277,452/60	20,000/12	IF split-funding for Other on PH grant
DOSECC, Inc. NIELSON, Dennis L.	"Support for Scientific Drilling"	EAR0309707	2,661,945/60	454,960/12	3rd yr incr on 5-yr cont grant for FS
DOSECC, Inc. NIELSON, Dennis L.	"Support for Scientific Drilling [supplement to EAR-0309707]"	EAR0533143	69,988/0	69,988/0	IF suppl for FS on IF grant
Florida CHANNELL, James E.	"Purchase of Combined Alternating Gradient Magnetometer (AGM) / Vibrating Sample Magnetometer (VSM) System"	EAR0432883	82,267/12	72,267/12	standard grant for EA; split-funded w/ OCE/ODP = 10,000
Florida MUELLER, Paul A.	"Technical Support for a New ICP-MS Laboratory for Earth and Ocean Science Research at the University of Florida"	EAR0418905	217,901/36	72,717/12	2nd yr incr on 3-yr cont grant for TS
Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM)"	EAR0518962	2,528,124/36	580,000/12	1st yr incr on 3-yr cont grant for FS
Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Establish and Operate the National Center for Airborne Laser Mapping (NCALM) [supplement to EAR-0236720]"	EAR0527421	63,814/0	2,000/0	IF suppl for FS on IF grant; split-funded w/ GLD = 59,814 and CD = 2,000
Florida State ERLEBACHER, Gordon	"Collaborative Research: Development of Middleware/Software to Allow Visualization and Analysis of Large and Complex 4-D Geoscience Datasets"	EAR0446729	220,599/36	- 0 -	1st yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 75,474
Florida State SALTERS, Vincent J. M.	"MRI: The Acquisition of a Multi Collector Inductively Coupled Plasma Mass Spectrometer and Laser Ablation System for Earth and Ocean Sciences at Florida State University"	EAR0521201	455,412/2	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 287,294
Harvard MUKHOPADHYAY, Sujoy	"Acquisition of a Mass Spectrometry System for Noble Gas Geochemistry at Harvard [supplement to EAR-0236594]"	EAR0446948	5,544/0	5,544/0	IF suppl for EA on IF grant
Hawaii HAMMER, Julia E.	"Acquisition of Equipment for an Experimental Petrology Laboratory [supplement to EAR-0236564]"	EAR0529594	16,704/0	16,704/0	IF suppl for EA on IF grant
Illinois BASS, Jay D.	"Collaborative Research:Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135642	845,053/60	60,000/12	IF split-funding for Other on PH grant
Illinois JOHNSON, Thomas M.	"Technical Support for the New MC-ICP-MS Laboratory at University of Illinois at Urbana Champaign"	EAR0348948	245,890/36	75,000/12	2nd yr incr on 3-yr cont grant for TS
Indiana PALLICKARA, Shrideep B.	"Collaborative Research: Development of Middleware/Software to Allow Visualization and Analysis of Large and Complex 4-D Geoscience Data Sets"	EAR0446610	199,020/36	- 0 -	1st yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 64,241

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Indiana RIPLEY, Edward M.	"Technician Support for Stable Isotopic Research Facility (SIRF) at Indiana University"	EAR0413575	217,014/36	69,674/12	1st yr incr on 3-yr cont grant for TS
Internat Seismological Ctr SHAPIRA, Avi	"Partial Support of the International Seismological Centre"	EAR0128053	635,421/48	145,039/12	4th yr incr on 4-yr cont grant for FS
Iowa KRAJEWSKI, Witold F.	"Collaborative Research: Testing a Dynamical-Hortonian Scaling Theory for Flood Events on Whitewater Basin, Kansas"	EAR0450320	99,713/12	99,713/12	IF split-funding for ITD on HS grant
Iowa State CERVATO, Cinzia	"The CHRONOS System: Geoinformatics for Deep-time Earth Processes"	EAR0524285	10,572,760/60	- 0 -	standard grant for GI; split-funded w/ EAR/GI = 1,069,303
Iowa State CERVATO, Cinzia	"Collaborative Research: CHRONOS Network for Earth System History: Development of Integrated Databases and Tool Kits Accessible through a common Portal [supplement to EAR-0315216]"	EAR0512056	3,060,221/72	- 0 -	suppl for GI on GE grant; split-funded w/ EAR/GI = 25,000
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan"	EAR0349522	76,291,841/60	11,893,725/12	5th yr incr on CAGR EAR-0004370 for FS; split funded w/ EAR/GI = 266,275 and OPP/AGG = 142,931
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0522482	200,000/0	200,000/0	IF suppl for FS on IF CAGR
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0453220	2,874,000/0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ IAT from DOE = 2,874,000
Kansas STOCKLI, Daniel	"Technician Support: (U-Th)/He Laboratory at the University of Kansas [Phase I]"	EAR0414817	203,376/36	64,512/12	1st yr incr on 3-yr cont grant for TS
Kansas WALKER, J. Douglas	"ITR/IM (EAR) - Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database [supplement to EAR- 0312880]"	EAR0549256	61,986/0	- 0 -	suppl for GI on ITR/Small grant; split-funded w/ GI = 59,697
Kansas WALKER, J. Douglas	"Collaborative Project: Facility Support: EarthChem - Advancing Data Management in Solid Earth Geochemistry"	EAR0522222	841,334/60	- 0 -	1st yr incr on 5-yr cont grant for GI; split-funded w/ EAR/GI = 171,502
Kansas State GAO, Stephen S.	"Continental Crustal Composition and Evolution: Constraints from Receiver Function Analysis"	EAR0440320	41,355/24	41,355/24	IF split-funding for EA on PH grant
Keene State College ALLEN, Timothy T.	"MRI: Upgrade of an XRF Spectrometer and Acquisition of an Ultrasonic Nebulizer Aerosol Deposition System for Research & Research Training in Environmental Geochemistry & Biogeochemistry"	EAR0520938	116,516/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/ATM = 116,516
Kentucky RIMMER, Susan M.	"Acquisition of a DGC Maceral Separation Laboratory: The Key to Maceral-specific Isotopic and Geochemical Analysis"	EAR0450898	82,661/12	82,661/12	standard grant for EA
Kentucky ROWE, Harold D.	"MRI: Acquisition of an X-Ray Diffractometer for a Shared-Use Facility Serving the University and the Region"	EAR0521405	292,334/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 144,749 and EHR/EPSCoR = 144,748
Lehigh BEBOUT, Gray E.	"High-Precision Isotopic Analysis of Nanomole Quantities of Silicate Nitrogen"	EAR0409008	58,058/12	58,058/0	IF split-funding for ITD on CH grant

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Macalester College WIRTH, Karl R.	"MRI: Acquisition of an X-Ray Diffractometer for Materials Characterization in Multidisciplinary Research and Training"	EAR0520870	147,537/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 147,537
Maryland FARQUHAR, James	"Technical Support for the Stable Isotope Facility at the GL at UMCP"	EAR0345612	225,000/36	75,000/12	2nd yr incr on 3-yr cont grant for TS
Maryland LATHROP, Daniel P.	"MRI: Development Of A Three-Meter Liquid Sodium Geodynamo Model [supplement to EAR-0116129]"	EAR0442180	220,000/14	220,000/0	IF suppl for ITD on EAR/MRI grant
Miami - RSMAS DIXON, Timothy H.	"Collaborative Research: Acquisition of Continuous GPS and Borehole Geophysical Networks for Investigations of Seismogenic Processes at the Costa Rica Subduction Zone"	EAR0502221	192,496/24	7,822/12	1st yr incr on 2-yr cont grant for EA
Miami - RSMAS GRASMUECK, Mark	"Development of a 'Real 3-D' GPR System for Geoscientific Imaging"	EAR0323213	271,284/24	63,541/12	2nd yr incr on 2-yr cont grant for ITD
Michigan LANGE, Rebecca	"Development of an Ultrasonic Acoustic Interferometer for Silicate Liquids in an Internally Heated Pressure Vessel"	EAR0447113	281,284/36	100,718/12	1st yr incr on 3-yr cont grant for ITD
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR0218384	1,896,496/60	380,497/12	4th yr incr on 5-yr cont grant for FS
Minnesota BANERJEE, Subir K.	"Collaborative Proposal for Facility Support: Development and Maintenance of the Magnetism Information Consortium (MagIC)"	EAR0317922	260,061/36	- 0 -	split-funding for GI on PH grant; split-funded w/ EAR/GI = 54,925
Minnesota HIRSCHMANN, Marc M.	"Collaborative Research: A New Experimental Database for Improving and Extending MELTS"	EAR0439800	104,356/24	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 50,000
Minnesota ITO, Emi	"Support of the Core Laboratory at the Limnological Research Center [supplement to ATM-0307262]"	ATM0548214	49,990/3	49,990/0	IF suppl for FS on ATM/PC grant
Minnesota YUEN, David A.	"Collaborative Research: Development of Middleware/Software to Allow Visualization and Analysis of Large and Complex 4-D Geoscience Data Sets."	EAR0445392	221,916/36	- 0 -	1st yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 74,747
Minnesota - Duluth BROWN, Erik T.	"MRI: Acquisition of an X-ray Fluorescence Scanner for Paleolimnological Studies at the Large Lakes Observatory"	EAR0521322	364,050/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 325,274
MIT BOWRING, Samuel A.	"The EARTHTIME Network: Developing an Infrastructure for High-Resolution Calibration of Earth History"	EAR0451802	4,322,910/60	209,333/12	1st yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 200,000
MIT GROVE, Timothy L.	"Upgrading the MIT Experimental Petrology Laboratory"	EAR0447204	87,837/24	87,837/24	standard grant for EA
MIT GROVE, Timothy L.	"Collaborative Research: A New Experimental Database for Improving and Extending MELTS"	EAR0440045	146,686/24	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 50,000
MIT HEMOND, Harold F.	"SENSORS: Sensor Networks for the Study of Heterogeneous Fluxes in Lakes"	EAR0330272	43,742/12	43,731/0	IF split-funding for EA on HS grant
MIT KING, Robert W.	"GPS Data Processing Support for the UNAVCO Community"	EAR0519562	153,754/24	75,805/12	1st yr incr on 2-yr cont grant for FS
MIT SHIM, Sang-Heon	"Acquisition of a Combined Micro-Raman Spectroscopy and Laser Heating System for In Situ High Pressure and High Temperature Studies"	EAR0337156	247,770/12	100,000/12	2nd yr incr on 1-yr cont grant for EA

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Montana DEGRANDPRE, Michael	"An Autonomous Freshwater pH Sensor: Development and Applications"	EAR0337460	37,000/12	60,000/12	IF split-funding for ITD on HS grant
Montana State MCGLYNN, Brian L.	"Collaborative Research: Watershed Carbon Distribution and Flux Across Environmental Gradients"	BG0404130	32,900/12	32,900/12	IF split-funding for Other on ICCR grant
Montclair State BRACHFELD, Stefanie A.	"MRI: Acquisition of a Vibrating Sample Magnetometer at Montclair State University"	EAR0521069	197,649/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/OPP = 115,652 and OIA/MRI/EAR = 81,997
Nevada - DRI ENGELBRECHT, Johann	"MRI: Acquisition of an X-ray Diffractometer"	EAR0521619	269,163/36	- 0 -	standard grant for EA; split-funded w/ GEO/AD Reserve = 269,163
Nevada - Las Vegas LACHNIET, Matthew S.	"MRI: Acquisition of a Stable Isotope Ratio Mass Spectrometer for Earth Systems Science Research at the University of Nevada, Las Vegas"	EAR0521196	347,776/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 248,520
Nevada - Reno POULSON, Simon R.	"Development of a New Safe, Simple and Rapid Technique for Silicate and Oxide d18O Analyses"	EAR0447229	78,454/12	78,454/24	standard grant for ITD
New Mexico CROSSEY, Laura J.	"Acquisition of an ICP-OES for Geoscience Research at the University of New Mexico"	EAR0447402	210,832/12	162,582/24	standard grant for EA
New Mexico DRAPER, David	"Upgrading of High-Pressure Experimental Petrology Laboratory at University of New Mexico"	EAR0446524	15,519/12	15,519/12	standard grant for EA
North Carolina GLAZNER, Alan F.	"ITR/IM EAR) - Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North America [supplement to EAR-0312691]"	EAR0533408	18,542/0	- 0 -	suppl for GI on ITR/Small grant; split-funded w/ EAR/GI = 18,542
North Carolina State BLAIR, Neal E.	"Acquisition of a Multi-use Isotope Ratio Mass Spectrometry System: Upgrade of Isotope Biogeochemistry Laboratory"	EAR0447095	387,715/24	211,126/12	standard grant for EA
North Carolina State FODOR, Ronald V.	"Upgrading the ARL-SEMQ Electron Microprobe at North Carolina State University [supplement to EAR-0307257]"	EAR0531442	6,700/0	6,700/0	IF suppl for EA on IF grant
Northern Arizona KAUFMAN, Darrell S.	"Facilities Support: Amino Acid Geochronology Laboratory"	EAR0419617	99,737/24	46,396/12	2nd yr incr on 2-yr cont grant for FS
Northern Arizona REID, Mary R.	"Acquisition of Microsampling Equipment and Peripherals to Create the NAU Earth Materials Microanalytical (EMMA) Facility"	EAR0450977	190,566/12	190,566/12	standard grant for EA
Northern Kentucky BERTOG, Janet L.	"MRI: Acquisition of the Rigaku Ultima III X-ray Diffractometer for Undergraduate Research and Education at Northern Kentucky University"	EAR0520921	248,530/12	- 0 -	standard grant for EA; split-funded w/ EHR/EPSCoR = 70,000 and OIA/MRI/EAR = 69,998
Ohio State BEVIS, Michael	"Airborne Laser Swath Mapping of the Southern San Andreas Fault"	EAR0409045	379,206/24	100,000/12	IF split-funding for ITD on PH grant
Ohio State FOLAND, Kenneth A.	"Technician Support: Ohio State University, Radiogenic Isotopes Laboratory - Phase II"	EAR0452220	150,000/24	75,000/12	1st yr incr on 2-yr cont grant for TS
Oklahoma ENGEL, Michael H.	"Acquisition of a Sstable Isotope Ratio Mass Spectrometer for Biogeochemical Research"	EAR0444610	266,567/12	132,996/24	standard grant for EA; split-funded w/ OPP/ARSL = \$92,004

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY05 Funding by IF/months	Comments
Oklahoma RECHES, Ze'ev	"Natural Earthquake Laboratory in South African Mines (NELSAM)"	EAR0409605	183,310/12	183,310/12	IF split-funding for EA on CD grant
Oregon CASHMAN, Katharine V.	"MRI: Acquisition of a Variable Pressure Scanning Electron Microscope"	EAR0521653	260,181/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 260,181
Oregon JOHNSTON, A. Dana	"Development of a Rapid-Quench, Cold-Seal Hydrothermal Laboratory with Automated Pressure Cycling for Petrologic, Volcanologic, and Ore Deposits Research"	EAR0444483	66,621/24	66,621/24	standard grant for ITD
Oregon State EGBERT, Gary D.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility"	EAR0236788	59,016/36	20,826/12	3rd yr incr on 3-yr cont grant for FS
Penn State AMMON, Charles J.	"Upgrading the Earthquake Seismology Computing Facility at Penn State"	EAR0447173	40,022/12	30,022/12	standard grant for EA; split-funded w/ OPP/AGG = 10,000
Penn State ANANDAKRISHNAN, Sridh	"Upgrading of Linux Computing Facility for Research in Climate- Change, Glacier Dynamics, and Fluid Flow"	EAR0447235	44,087/12	11,022/12	standard grant for EA; split-funded w/ OCE/ODP = 11,021, OPP/AGG = 11,022 and OPP/GLAC = 11,022
Penn State MARONE, Chris J.	"Development of a Pressure Vessel for Hydrothermal Control in Biaxial Deformation Experiments at the Penn. State Rock Mechanics Laboratory"	EAR0345813	192,186/24	121,049/12	2nd yr incr on 2-yr cont grant for ITD
Penn State NYBLADE, Andrew A.	"Facility Support: AfricaArray"	EAR0446647	198,597/36	70,137/12	1st yr incr on 3-yr cont grant for FS
Penn State NYBLADE, Andrew A.	"Collaborative Research: Africa Array--Imaging the African Superplume"	EAR0440032	42,000/12	42,000/12	IF split-funding for EA on PH grant
Penn State REED, Patrick M.	"Technician Support for Real-Time Hydrologic Sensor Systems within the Penn State Experimental Forest"	EAR0418798	225,000/36	75,000/12	1st yr incr on 3-yr cont grant for TS
Pittsburgh CAPO, Rosemary C.	"Technician Support: Geochemistry Laboratories at the University of Pittsburgh, Phase II"	EAR0517313	95,313/24	46,951/12	1st yr incr on 2-yr cont grant for TS
Portland State CADY, Sherry L.	"Technician Support: Geomicrobiology and Electron Microscopy Laboratory"	EAR0423902	195,960/36	62,775/12	1st yr incr on 3-yr cont grant for TS
Purdue CAFFEE, Marc	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR0452936	3,383,849/48	692,784/12	1st yr incr on 4-yr cont grant for FS
Purdue CAFFEE, Marc	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345820	49,494/12	49,494/12	IF split-funding for ITD on GG grant
Rhode Island - GSO CAREY, Steven	"Acquisition of a Laser Diffraction Particle Analyzer for Volcanological and Sedimentological Research"	EAR0446748	53,750/12	36,837/12	standard grant for EA; split-funded w/ OCE/MGG = 15,788
Rutgers SWISHER, Carl C.	"Acquisition of a 40Ar/39Ar Dating Laboratory at Rutgers University [supplement to EAR-0130292]"	EAR0501210	22,103/0	22,103/0	IF suppl for EA on IF grant
San Diego State HANAN, Barry B.	"An Acquisition of a Multi-Collector-Inductively Coupled Plasma- Mass Spectrometer [supplement to OCE-0079943]"	OCE0530937	10,000/12	10,000/12	IF split-funding for EA on OCE/ITS grant
Southern California JORDAN, Thomas H.	"Crustal Dynamics Research in Western North America: Data Acquisition for the WInSAR Consortium"	EAR0425887	300,000/36	- 0 -	2nd yr incr on 3-yr cont grant for FS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY05 Funding by IF/months	Comments
Southern Illinois FERRE, Eric C.	"MRI: Acquisition of a Vibrating Sample Magnetometer for the Rock Magnetism Laboratory at Southern Illinois University"	EAR0521558	167,960/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 156,960
Stanford CHAMBERLAIN, C. Page	"Technician Support: Stanford/USGS Ion Microprobe Facility"	EAR0446541	220,096/36	72,825/12	1st yr incr on 3-yr cont grant for TS
SUNY - Binghamton LOWENSTEIN, Tim K.	"Upgrading of Binghamton University Geoscience Microscopy/Fluid Inclusion Laboratory"	EAR0447165	78,915/12	97,242/24	standard grant for EA
SUNY - Stony Brook LI, Baosheng	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135550	885,376/60	60,000/12	IF split-funding for Other on PH grant
SUNY - Stony Brook LIEBERMANN, Robert	"Consortium for Materials Properties Research in the Earth Sciences"	EAR0527425	13,561,585/60	2,100,000/12	4th yr incr on 5-yr CAGR EAR-0135554 for FS
SUNY - Stony Brook LIEBERMANN, Robert C.	"Consortium for Materials Properties Research in the Earth Sciences [supplement to CAGR-0135554]"	EAR0502113	27,701/0	27,701/0	IF suppl for Other on IF grant
SUNY - Stony Brook WEIDNER, Donald	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135551	873,666/60	110,000/12	IF split-funding for Other on PH grant
Syracuse BALDWIN, Suzanne L.	"Phase II Technician Support: Syracuse University Noble Gas Isotope Research Laboratory (SUNGIRL)"	EAR0447305	150,000/24	75,000/12	1st yr incr on 2-yr cont grant for TS
Syracuse SAMSON, Scott D.	"Upgrading the Syracuse University Earth Sciences JEOL 6300 SEM"	EAR0447154	128,333/12	128,333/24	standard grant for EA
Texas CARLSON, William D.	"Facility Support: High-Resolution X-ray Computed Tomography Laboratory"	EAR0345710	1,502,144/60	268,979/12	2nd yr incr on 5-yr cont grant for FS
Texas CARLSON, William D.	"Facility Support: High-Resolution X-ray Computed Tomography Laboratory [supplement to EAR-0345710]"	EAR0535826	6,000/0	6,000/0	IF suppl for Other on IF grant
Texas GARDNER, James E.	"Acquisition of a Fourier Transform Infrared (FTIR) Spectroscopy System: Measuring Volatiles in Magmatic and Ore-Forming Systems"	EAR0447126	138,000/2	107,400/12	standard grant for EA
Texas WILSON, Clark R.	"Development of an Integrated Superconducting Gravity Meter Sensor System for Subsurface Water Storage"	EAR0345864	665,128/36	104,264/12	2nd yr incr on 3-yr cont grant for ITD
Texas - Dallas STERN, Robert J.	"Mantle Inputs to the Subduction Factory: Assessing Scales of Spatial Variability Along and Across the IBM Convergent Margin [supplement to OCE-0405651]"	OCE0516806	36,000/0	18,000/0	IF suppl for EA on OCE grant; split-funded w/ OCE/ODP= 18,000
Texas - El Paso KELLER, George R.	"MRI: Upgrade of a Pool of Highly Portable Seismic Recorders for Use by the Seismological Community"	EAR0521644	570,745/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 431,992
UNAVCO, Inc. MEERTENS, Charles M.	"Acquisition of New GPS Equipment for the UNAVCO Community Pool in Support of Current and Emerging Solid-Earth Sciences Research Applications"	EAR0214355	375,250/36	113,750/12	3rd yr incr on 3-yr cont grant for EA
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities"	EAR0501205	13,009,777/48	2,136,081/12	3rd yr incr on 51-mo CAGR EAR-0321760 for FS; split-funded w/ interagency transfer from NASA = 956,000 for SENH and IGS activities

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY05 Funding by IF/months	Comments
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0511845	82,996/0	80,000/0	IF suppl for FS on IF CAGR; split-funded w/ PH = 2,996
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0551320	78,486/0	25,000/0	IF suppl for FS on IF CAGR; split-funded w/ PH = 53,486
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0500562	451,219/0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ and OPP/PRSS = 180,000; OPP/ARSL = 139,875; OPP/Glac = 63,045; OPP/AGG = 45,970; OPP/ABM = 19,702; and OPP/Oceans = 2,627 for support of USAP and Arctic field research programs
Utah WANNAMAHER, Philip E.	"Collaborative Research: Electromagnetic Studies of the Continents (EMSOC): National Instrument Facility"	EAR0236553	99,649/36	17,626/12	3rd yr incr on 3-yr cont grant for FS
Washington BOOKER, John R.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility"	EAR0236538	128,687/36	12,581/12	3rd yr incr on 3-yr cont grant for FS
Washington BOURGEOIS, Joanne	"NSF Workshop: Tsunami Deposits and their Role in Hazard Assessment"	EAR0531497	5,000/12	5,000/12	IF split-funding for Other on SGP grant
Washington STONE, John O.	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345574	40,710/12	40,710/12	IF split-funding for ITD on GG grant
Washington State VERVOORT, Jeffrey D.	"Technician support (Phase I) for MC-ICPMS Isotope Facility, Washington State University"	EAR0434406	225,000/36	75,000/12	1st yr incr on 3-yr cont grant for TS
Western Michigan KORETSKY, Carla M.	"Acquisition of an Inductively Coupled Plasma Optical Emission Spectrometer for Interdisciplinary Geochemical and Microbiological Research and Education"	EAR0446565	89,031/12	89,031/24	standard grant for EA
WHOI PEUCKER-EHRENBRINK,	"Facility Support: Northeast National Ion Microprobe Facility at the Woods Hole Oceanographic Institution"	EAR0422965	373,759/24	124,946/12	1st yr incr on 2-yr cont grant for FS
WHOI PEUCKER-EHRENBRINK,	"Technician Support for the WHOI ICPMS Facility"	EAR0318137	224,200/36	37,500/12	2nd yr incr on 3-yr cont grant for TS; split-funded w/ OCE/MGG = 37,500
Wisconsin JOHNSON, Clark M.	"Technician Support: Request for Phase I for MC-ICP-MS Laboratory"	EAR0318213	194,559/36	64,774/12	2nd yr incr on 3-yr cont grant for TS
Wisconsin SINGER, Bradley S.	"Technician Support: Phase II for the University of Wisconsin Rare Gas Geochronology Laboratory"	EAR0516760	88,006/24	43,058/12	1st yr incr on 2-yr cont grant for TS
Wisconsin VALLEY, John W.	"Acquisition of an Ion Microprobe for Stable Isotope Analysis [supplement to EAR-0319230]"	EAR0438893	89,141/0	89,141/0	IF suppl for EA on EAR/MRI grant
Wright State HIGGINS, Steven R.	"Development of "Smart" Scanning Probe Microscopy Instrumentation for Studies of Mineral-Water Interfaces"	EAR0345729	189,024/24	97,850/12	2nd yr incr on 2-yr cont grant for ITD
Wyoming MOROZOV, Igor B.	"Obtaining a Unique, Comprehensive Deep Seismic Sounding Upper-Mantle Data Set for Broad Seismological and CTBT Monitoring Community"	EAR0092744	365,526/48	45,000/12	4th yr incr on 4-yr cont grant for Other
Yale BRANDON, Mark T.	"Collaborative Research: Retreating-Trench, Extension, and Accretion Tectonics (RETREAT): a Multidisciplinary Study of the Northern Apennines [supplement to EAR-0208652]"	EAR0528696	4,500/0	4,500/0	IF suppl for EA on CD grant

<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY05 Funding by IF/months</b>	<b>Comments</b>
Yale KARATO, Shun-ichiro	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth"	EAR0136181	959,177/60	70,000/12	IF split-funding for Other on PH grant
Yale KORENAGA, Jun	"CAREER: Energetics of Mantle Convection and Physics of Earth's Evolution"	EAR0449517	104,630/12	104,630/12	IF split-funding for EA on PH grant
Yale REINERS, Peter W.	"Technician Support for the Yale (U-Th)/He Chronometry Facility"	EAR0233767	161,719/36	56,447/12	3rd yr incr on 3-yr cont grant for TS

## **ABBREVIATIONS and EXPLANATIONS**

<b>AAS</b> =	Archaeology, Archaeometry and Systematic Collections Program in SBE	<b>GLAC</b> =	Glaciology Program in OPP
<b>AD</b> =	Assistant Director's Office (in this case GEO)	<b>GLD</b> =	Geomorphology & Land Use Dynamics Program in EAR
<b>AFOSR</b> =	Air Force Office of Scientific Research	<b>GPS</b> =	Global Positioning System
<b>AGG</b> =	Antarctic Geology and Geophysics Program in OPP	<b>GSN</b> =	Global Seismographic Network of IRIS
<b>ANS</b> =	Arctic Natural Sciences Program in OPP	<b>GSO</b> =	Graduate School of Oceanography, University of Rhode Island
<b>AO</b> =	Astronomical Observatory of the Smithsonian Institution	<b>HRTEM</b> =	high- resolution TEM
<b>AP</b> =	Applications in Science and Engineering Technical Area of ITR	<b>HS</b> =	Hydrologic Sciences Program in EAR
<b>ARCSS</b> =	Arctic System Sciences Program in OPP	<b>ICCR</b> =	Integrated Carbon Cycle Research Program
<b>ARSL</b> =	Arctic Research and Logistics Program in OPP	<b>ICP-AE</b> =	Inductively coupled plasma-atomic emission spectrometer
<b>ASL</b> =	Albuquerque Seismology Laboratory of the USGS	<b>ICP-MS</b> =	Inductively coupled plasma-mass spectrometer
<b>ASS</b> =	Arctic Social Sciences Program in OPP	<b>IF</b> =	Instrumentation and Facilities Program in EAR
<b>ATM</b> =	Division of Atmospheric Sciences in GEO	<b>IM</b> =	Information Management Technical Area of ITR
<b>BNL</b> =	Brookhaven National Laboratory	<b>incr</b> =	an annual increment of funds to an active NSF grant
<b>CAGR</b> =	Cooperative Agreement	<b>INT</b> =	Division of International Programs in SBE
<b>CD</b> =	Continental Dynamics Program in EAR	<b>IRIS</b> =	Incorporated Research Institutions for Seismology
<b>CD-ATM</b> =	Climate Dynamics Program in ATM	<b>ISS</b> =	Impulsive Stimulated Scattering
<b>CH</b> =	Geochemistry and Petrology Program in EAR	<b>ITD</b> =	Instrument and Technique Development component of IF Program
<b>CHE</b> =	Chemical Instrumentation Program in MPS	<b>ITR</b> =	Information Technology Research Program
<b>CIW</b> =	Carnegie Institution of Washington	<b>ITR-small</b> =	allocation for class of ITR proposals requesting <= \$500k
<b>CO</b> =	Chemical Oceanography Program in OCE	<b>ITS</b> =	Oceanographic Instrumentation and Technical Service Program in OCE
<b>cont grant</b> =	continuing grant, a multi-year grant funded one year at a time	<b>IUPU</b> =	Indiana University - Purdue University system
<b>CRDF</b> =	U.S. Civilian Research and Development Foundation	<b>KNET</b> =	Kyrgyz Broad-Band Seismograph Network
<b>DCP</b> =	direct current plasma	<b>LA-ICP-MS</b> =	laser ablation ICP-MS
<b>DMA</b> =	Defense Mapping Agency	<b>LDEO</b> =	Lamont-Doherty Earth Observatory, Columbia University
<b>DMI</b> =	Division of Design, Manufacture & Industrial Innovation in ENG	<b>MGG</b> =	Marine Geology and Geophysics Program in OCE
<b>DMR</b> =	Division of Materials Research in MPS	<b>MPS</b> =	Directorate for Mathematics and Physical Sciences at NSF
<b>DOD</b> =	Department of Defense	<b>MRI</b> =	Major Research Instrumentation Program in OIA
<b>DRI</b> =	Desert Research Institute of the University of Nevada	<b>NAVAIR</b> =	Naval Air Weapons Center
<b>DTM</b> =	Department of Terrestrial Magnetism in CIW	<b>NIMA</b> =	National Imagery and Mapping Agency (formerly DMA)
<b>EA</b> =	Equipment Acquisition component of IF Program	<b>NOAA</b> =	National Oceanic and Atmospheric Administration within U.S. Department of Commerce
<b>EAR</b> =	Division of Earth Sciences in GEO	<b>NOS</b> =	National Ocean Service in NOAA
<b>EH</b> =	Education & Human Resources Program in EAR	<b>NSLS</b> =	National Synchrotron Light Source at BNL
<b>EHR</b> =	Directorate for Education and Human Resources at NSF	<b>OBES</b> =	Office of Basic Energy Sciences in the U.S. Department of Energy
<b>ENG</b> =	Directorate for Engineering at NSF	<b>OCE</b> =	Division of Ocean Sciences in GEO
<b>EPSCoR</b> =	Experimental Program to Stimulate Competitive Research in EHR	<b>ODP</b> =	Ocean Drilling Program in OCE
<b>ES</b> =	pre-EarthScope Activities Account in EAR	<b>OIA</b> =	Office of Integrative Activities at NSF (formerly OSTI)
<b>FS</b> =	Facility Support component of IF Program	<b>OMA</b> =	Office of Multidisciplinary Activities at NSF
<b>FY</b> =	Federal fiscal year e.g., FY94: 10/1/93 to 9/30/94	<b>OPP</b> =	Office of Polar Programs at NSF
<b>GE</b> =	Geology and Paleontology Program in EAR	<b>OSTI</b> =	Office of Science and Technology Infrastructure at NSF
<b>GEO</b> =	Directorate for Geosciences at NSF	<b>OT</b> =	Oceanographic Technology Program in OCE
<b>GG</b> =	Geobiology & Low Temperature Geochemistry Program in EAR	<b>Other</b> =	includes categories other than EA, FS, ITD and TS (e.g., workshops, research projects etc.)
<b>GL</b> =	Geophysical Laboratory in CIW		

**PC** = Paleoclimate program in ATM  
**PE** = People and Social Groups Interacting with Computers and Infrastructure Technical Area of ITR  
**PH** = Geophysics Program in EAR  
**REU** = Research Experience for Undergraduates Program in EHR  
**RSMAS** = Rosenstiel School of Marine and Atmospheric Sciences  
**RUI** = Research in Undergraduate Institutions Program in EHR  
**SBE** = Directorate for Social, Behavioral & Economic Sciences at NSF  
**SBER** = Division of Social, Behavioral and Economic Research in SBE  
**SBIR** = Small Business Innovation Research Program in ENG  
**SENH** = NASA's Solid Earth And Natural Hazards Research Program  
**SGER** = Small Grants for Exploratory Research  
**SGP** = Sedimentary Geology & Paleobiology Program in EAR  
**SIMS** = secondary ionization mass spectrometry  
**SIO** = Scripps Institution of Oceanography  
**SNL** = Sandia National Laboratory  
**split-funding** = two or more programs share the funding of a grant  
**SPO** = Scientific Program Order  
**standard grant** = a grant funded for the full amount in its 1st yr  
**STC** = NSF Science and Technology Center  
**SUNY** = State University of New York  
**suppl** = a funding supplement to an active NSF grant  
**TE** = Tectonics Program in EAR  
**TEA** = Teaching Experiences in the Arctic  
**TEM** = transmission electron microscopy  
**TIMS** = thermal ionization mass spectrometry  
**TS** = Technician Support component of IF Program  
**UCAR** = University Consortium for Atmospheric Research  
**UNAVCO** = University NAVSTAR Consortium within UCAR  
**USGS** = U.S. Geological Survey  
**VPI & SU** = Virginia Polytechnic Institute and State University  
**WE** = Western Europe Program in INT  
**WHOI** = Woods Hole Oceanographic Institution  
**XRD** = X-ray diffractometer  
**XRF** = X-ray fluorescence spectrometer

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Division of Earth Sciences (EAR)

Instrumentation and Facilities Program (IF)

Numerical Summary of All Actions in FY-2005

<u>PROPOSALS</u>		<u>DOLLARS</u>	
Total number of proposals processed by IF .....	311	Total dollars requested of IF (per year for multi-year proposals) .....	60,153,600
Logged-in to IF as primary program .....	268	Total awarded through IF actions in FY-2005 .....	44,970,193
New proposals; full review by IF .....	203	Awarded from IF budget .....	29,758,808
Declined .....	117	For equipment acquisition/upgrade (EA) .....	3,114,912
Withdrawn .....	4	For instr and technique development (ITD) .....	1,950,376
Funded entirely from IF budget .....	43	For facility support (FS) .....	22,454,911
Split-funded with other programs ..	29	For technician support (TS) .....	1,502,135
Held over for FY06 decision .....	10	For geoinformatics (GI) .....	209,333
		For other (workshops, REU, etc.) .....	527,141
New proposals; withdrawn before review .....	1	Awarded from other NSF budgets through split-funding ..	11,333,485
New proposals; return without review .....	9		
Other award actions (incr, suppl, etc) .....	55	For equipment acquisition/upgrade (EA) .....	5,983,191
Funded entirely from IF budget .....	43	For instr and technique development (ITD) .....	238,713
Split-funded with other programs .....	12	For facility support (FS) .....	978,721
		For technician support (TS) .....	72,500
		For geoinformatics (GI) .....	4,060,360
Logged-in to other NSF programs; IF-split-funding .....	31	Awarded through interagency transfers .....	3,877,900
Logged-in to other NSF programs; GI-split-funding .....	12	For facility support (FS) .....	3,877,900