

COLLEGE OF CHARLESTON
Office of Research and Grants Administration

Annual Report on External Funding Activity—Awards & Proposals
Fiscal Year 2011
July 1, 2010 – June 30, 2011

The College of Charleston received seventy-seven awards totaling \$11,845,527 in external funding during fiscal year 2011. Of these awarded funds, ninety-one percent came from federal sources.

During the same period, 109 proposals requesting \$22,949,964 in funding were submitted to forty-eight different sponsors. Of the requested funds, ninety-six percent were requested from federal sources. The sponsor to which the most proposals were submitted was the National Science Foundation, with thirty-five proposals. The next most prevalent sponsor was the SC Sea Grant Consortium (National Oceanic and Atmospheric Association) with nine proposals.

Award Amounts by Funding Source, Fiscal Year 2011:

<u>Funding Source</u>	<u>Number of Awards</u>	<u>Amount</u>
Federal	53	\$ 10,790,306
State (SC only)	9	\$ 474,816
Private (Nonprofit, Corporate, other states, etc.)	12	\$ 537,719
Local Govt. (Charleston area only)	2	\$ 22,411
Foreign	1	\$ 20,275
Total	77	\$ 11,845,527

Submitted Proposals by Funding Source, Fiscal Year 2011:

<u>Funding Source</u>	<u>Number of Proposals</u>	<u>Amount</u>
Federal	86	\$ 22,054,465
State (SC only)	5	\$ 511,631
Private (Nonprofit, Corporate, other states, etc.)	16	\$ 367,268
Local Govt. (Charleston area only)	1	\$ 3,256
Foreign Government	1	\$ 13,344
Total	109	\$ 22,949,964

Awards received and proposals submitted between July 1, 2011 and June 30, 2012 will be reported in the annual report for fiscal year 2012.

Funding Received by School, Fiscal Year 2011:

Category	Amount Received
Academic Affairs	\$228,685
School of the Arts	\$0
School of Business	\$21,885
School of Education, Health, & Human Performance	\$700,029
School of Humanities & Social Sciences	\$1,513,316
School of Languages, Culture, & World Affairs	\$0
Library	\$168,855
School of Sciences & Mathematics	\$8,515,750
Student Affairs	\$697,007
Total	\$11,845,527

Other, Fiscal Year 2011:

In addition to externally-funded awards, the following faculty members received internal sub awards from active grants awarded to the College of Charleston.

PI	Department	Project Title	Sponsor	Originating Agency	Amount Funded
Larsen, Michael	Physics & Astronomy	Cloud Coverage as an Indicator of Regional Climate Change	College of Charleston/SC Space Grant Consortium	NASA	\$9,650
Sloan, Mark	Halsey Institute of Contemporary Art	Many Moons Mini Exhibition	College of Charleston/Brown University	NASA	\$100,000
Wyatt, Jason	Chemistry	Atmospheric Chemistry	College of Charleston/SC Space Grant Consortium	NASA	\$10,000

Sponsors to which Proposals were Submitted, Fiscal Year 2011:

Sponsor (Originating Agency)	Number of Proposals Submitted	Total Amount Requested
National Science Foundation	35	\$11,647,375
SC Sea Grant Consortium (National Oceanic and Atmospheric Association)	9	\$605,473
National Endowment for the Humanities	4	\$409,779
National Oceanic and Atmospheric Association	4	\$574,092
US Department of Education	4	\$4,902,224
American Chemical Society	3	\$165,000
NASA	3	\$562,408
Charleston County School District (US Department of Education)	2	\$70,713
National Institutes of Health	2	\$800,761
Oak Ridge Associated Universities	2	\$10,000
SC Commission on Higher Education (US Department of Education)	2	\$458,389
Smithsonian Astrophysical Lab (NASA)	2	\$30,000
University of Virginia (National Institutes of Health)	2	\$639,445
Alliance For Full Acceptance	1	\$2,500
Avon Foundation	1	\$10,000
Clemson University (SC Sea Grant Consortium/National Oceanic and Atmospheric Association)	1	\$40,000
Deutscher Akademischer Austausch Dienst	1	\$13,344
Eppley Foundation	1	\$22,543
Florida Fish & Wildlife Conservation Commission	1	\$2,085
Guild Associates, Inc. (US Department of Agriculture)	1	\$22,160
Mayo Clinic	1	\$7,000
Medical University of South Carolina (National Institutes of Health)	1	\$6,825
Medical University of South Carolina (State of South Carolina)	1	\$291,733
Mt. Pleasant Water System	1	\$3,256
MUSC (National Institutes of Health)	1	\$6,121
National Endowment for the Arts	1	\$10,000
National Park Service	1	\$3,000
National Security Agency	1	\$50,806
Nuclear Regulatory Commission	1	\$56,875
Purdue University (National Science Foundation)	1	\$362,677

Recording for the Blind and Dyslexic	1	\$33,244
Research Corporation for Science Advancement	1	\$35,000
Santee-Lynches Regional Council of Governments	1	\$34,650
SC Emergency Management Division	1	\$17,844
SC Sea Grant Consortium	1	\$5,449
SC Water Resources Center, Clemson University (US Geological Survey)	1	\$20,000
Solisten, LLC	1	\$2,200
South Carolina Department of Education	1	\$161,955
The Humanities Council South Carolina (National Endowment for the Humanities)	1	\$8,000
UCLA-Archive Research and Study Center Visiting Researcher	1	\$3,000
University of California-Berkeley (NASA)	1	\$16,014
University of Cincinnati (United States Olympic Committee)	1	\$34,896
University of Maryland (Office of Naval Research)	1	\$150,000
University of South Carolina (Institute of Museum and Library Services)	1	\$22,000
University of South Carolina (US Department of Education)	1	\$498,765
University of South Dakota (National Science Foundation)	1	\$45,563
UNLV Harrah Hospitality Research Center	1	\$39,800
US Department of Justice	1	\$35,000
Total	109	\$22,949,964

Funding Received, Fiscal Year 2011							
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
McNeal, Anne		Academic Experience	ProjectROAR, A Student support Services Program to Serve 140 Low-income, First Generation, and Disabled Students	US Department of Education		\$220,000	
Total Academic Experience							\$220,000
Owens, Dave		Graduate Studies	Laparoscopic Examination of Loggerhead Sea Turtles in Florida Bay, 2011	Florida Fish & Wildlife Conservation Commission	US Dept. of the Interior	\$6,600	
Owens, Dave		Graduate School	Hormone analysis to determine sex in sea turtles- Bermuda samples	Florida Fish & Wildlife Conservation Commission		\$2,085	
Total Graduate Studies							\$8,685
Total Academic Affairs							\$228,685
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Smith, Wayne	Pan, Bing	Hotel & Tourism Management	Community Boathouse Feasibility Study	CCPRC		\$15,000	
Total Hotel & Tourism Management							\$15,000
Hefner, Frank		Office of Economic Analysis	Economic Forecasting Services	Santee-Lynches Regional Council of Governments		\$6,885	
Total Office of Economic Analysis							\$6,885
Total School of Business							\$21,885
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Lewis, Andrew		Health & Human Performance	Advanced Placement Summer Institute	SC Dept of Ed		\$19,659	
Smail, Karen	Manning, Marie	Health & Human Performance	Move, Groove, and Get Active: A Family Centered Recreation Program for Children with Asperger's/Autism Spectrum Disorder	SC Developmental Disabilities Council	DHHS	\$11,783	
Total Health & Human Performance							\$31,442
Provost, Mary	Skinner, Emily Hagood, Margaret	Teacher Education	Center of Excellence for Advancement of New Literacies in the Middle Grades-Year 5	SC Commission on Higher Education (CHE)		\$112,500	
Skinner, Mike		Teacher Education	Project CREATE 2011	SC Department of Education	US Department of Education	\$73,988	
Brock, Laura		Teacher Education	Minds in Motion	University of Virginia	NIH	\$44,520	
Skinner, Mike		Teacher Education	Center for the Support of Learning through Listening with RFB&D	Recording for the Blind and Dyslexic		\$33,244	
Swanson, Julie		Teacher Education	Gifted and Talented Graduate Course Program	SC Dept of Ed		\$194,335	
Veal, William		Teacher Education	Developing Science and Mathematics Content Knowledge for Teaching	SC Commission on Higher Education	US Department of Education	\$210,000	
Total Teacher Education							\$668,587
Total Education, Health & Human Performance							\$700,029
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Moscowitz, David		Communication	Roger Guenver: Tracing History	The Humanities Council SC	National Endowment for the Humanities	\$4,000	
Total Communication							\$4,000
Krasnoff, Larry		Philosophy	What is the Rule of Law?	NEH		\$25,000	
Total Philosophy							\$25,000
Ross, Tom	DeHaan, Kathleen Hays, Maureen Miehe, Ben Newhard, James	Psychology	College of Charleston Center for Social Science Research	National Science Foundation		\$1,000,000	
May, Cynthia		Psychology	REACH FAR	US Department of Education		\$418,140	
May, Cynthia		Psychology	REACH (formerly: LIFE) Year 3	College Transition Connection (CTC)		\$50,000	
Total Psychology							\$1,468,140
Key, Janet		Riley Center	KICA Election Ballot for 2011 Annual Meeting	KICA		\$7,665	
Stewart, Kendra		Riley Center	Charleston County School District Survey	Charleston County School District		\$7,411	
Stewart, Kendra		The Riley Center	Program Evaluation of the Solisten Project	Solisten, LLC		\$1,100	
Total Riley Center							\$16,176
Total Humanities & Social Sciences							\$1,513,316

PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Callicot, Burton		Library	Collegiate Recycling Program 2011	SC DHEC		\$1,000	
Ivy, Helen		Library	SC DNR Library Services (2010-2011)	SC DNR		\$52,730	
Ivy, Helen		Library	Management of NMFS Charleston Laboratory Library (2010-11)	NOAA		\$115,125	
						Total Library	\$168,855
						Total Library	\$168,855
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Burnett, Karen		Biology	Science to sustain, protect, and restore Coastal Ecosystems emphasizing linkage between environmental condition and Human Health	Hollings Marine Laboratory	NOAA	\$20,000	
Burnett, Karen		Biology	Subcontract: College of Charleston and Guild Biosciences/USDA	Guild Associates, Inc.	USDA	\$27,766	
Burnett, Lou	Burnett, Karen	Biology	REU Site: Research Experiences in Marine Organism Health: Resilience and Response to Environmental Change	NSF		\$194,900	
DeBuron-Connor, Isaure		Biology	Spotted seatrout health, fitness and pathogenic parasites: are they related?	SC Sea Grant Consortium		\$5,448	
De Buron-Connors, Isaure		Biology	Comparative impact of Invasive Parasitic Species on American Eel populations	SC Sea Grant Consortium	NOAA	\$10,000	
DiTullio, Jack		Biology	Collaborative Research: Lipid lubrication of oceanic carbon and sulfur biogeochemistry via a host-virus chemical arms race	NSF		\$445,837	
Dustan, Phil		Biology	Continuation of ecological watershed studies on BP lands	BP America, Inc.		\$1,000	
Dustan, Phil		Biology	The Menjangan Island Reef Project, Indonesia: Preserving ocean biodiversity & ecosystem integrity through Marine Protected Areas	Royal Geographical Society (with IBG)		\$20,275	
Harold, Tony		Biology	Identification of Prey Items Obtained from Lionfish Captured at Biscayne National Park	National Park Service		\$3,000	
Naylor, Gavin		Biology	Collaborative Research: Jaws and Backbone: Chondrichthyan Phylogeny and a Spine for the Vertebrate Tree of Life	NSF		\$2,234,878	
Naylor, Gavin	Auerbach, Michael;	Biology	Centers of Economic Excellence-Marine Genomics	MUSC	State of SC	\$57,270	
Plante, Craig	Hillenius, Jaap	Biology	Effects of Mosquito Abatement Pesticides	SRAC	USDA-NIFA	\$40,000	
Pritchard, Seth	Strand, Allan	Biology	RUI: Fine root production and architecture in a loblolly pine forest exposed to FACE: Interactive effects of atmospheric CO2 enrichment with soil N availability	National Science Foundation		\$584,298	
Rutter, Matthew	Murren, Courtney;	Biology	Collaborative: RUI: Engaging undergraduates in genomic questions and environmental context: building a database of complex phenotypes for plant	NSF		\$422,500	
Sotka, Erik	Strand, Allen	Biology	Collaborative Research: Cascading effects of an invasive seaweed on estuarine food webs of the southeastern US	NSF		\$265,414	
Zimmerman, Ana		Biology	Subaward: South Carolina IDeA Networks of Biomedical Research Excellence (SC INBRE) - Administrative Core	USC/SCEPSCoR	NIH	\$10,000	
						Total Biology	\$4,342,586
Deavor, Jim		Chemistry & Biochemistry	Building Biomedical Research Pathways in Genetics, Neurobiology, and Chemical Biology	USC	NIH	\$140,058	
Guirgis, Gamil		Chemistry	Conformational stability from variable-temperature infrared spectra of xenon solutions, ab initio calculations, and structural parameters of cyclohexanes with silicon atoms in the cyclic backbone	Camille and Henry Dreyfus Foundation, Inc.		\$10,000	
Riggs-Gelasco, Pam	Meyer-Bernstein, Beth Hurd, Mark Oprisan, Sorinel Van Sickle, Meta	Chemistry & Biochemistry	Undergraduate Science Education Program	Howard Hughes Medical Institute (HHMI)		\$355,125	
						Total Chemistry & Biochemistry	\$505,183
Bowring, Jim		Computer Science	CIRDLES Yr 2: Development of Cyber Infrastructure to Support Laser-Ablation ICP Mass Spectrometry	Exxon Mobil		\$35,000	
Bowring, Jim		Computer Science	Collaborative: Analytical techniques and software: Development of cyberinf	NSF		\$96,320	
Manaris, Bill	McCauley, Renee	Computer Science	Computing in the Arts (CITA)	NSF		\$124,999	
Manaris, Bill		Computer Science	EAGER: an Efficient Algorithm for Automated Transcription of Music, Vocalizations, and Arbitrary Sound Recordings	NSF		\$37,016	
Moore, Christine		Computer Science	SCAMP-2010/2011	SC State University	NSF	\$44,956	
Stalvey, RoxAnn		Computer Science	Collaborative Research: Scaling up an innovative approach for attracting students to computing	NSF		\$63,312	
						Total Computer Science	\$401,603
Callahan, Timothy		Geology & Environmental Geosciences	Health and Well-being in Coastal Counties: Impact and Resiliency in the Wake of Deepwater Horizon Industrial-Environmental Disaster-Lauren Brown	SCSGC	NOAA	\$23,187	

Callahan, Timothy		Geology & Environmental Geosciences	Health and Well-being in Coastal Counties: Impact and Resiliency in the Wake of Deepwater Horizon Industrial-Environmental Disaster-Lowell Atkinson	SCSGC	NOAA	\$23,187	
Callahan, Timothy	Vulava, Vijaya	Geology & Environmental Geosciences	Acquisition of an isotopic liquid water analyzer for environmental science research and student training at CoFC	NSF		\$79,795	
Colgan, Mitchell		Geology & Environmental Geosciences	State NASA EPSCoR Match - Year 4	SCRA EPSCoR		\$24,989	
Colgan, Mitchell		Geology & Environmental Geosciences	Space Grant Year 18	NASA		\$230,000	
Colgan, Mitchell		Geology & Environmental Geosciences	subaward to USC (Reynolds)	NASA		\$750,000	
Colgan, Mitchell		Geology & Environmental Geosciences	sub to clmson (Chen)	NASA		\$750,000	
Colgan, Mitchell	Hall, Cynthia	Geology & Environmental Geosciences	SCSGC Geospatial Institute for Students and Teachers in Climate Change	NASA		\$185,000	
Levine, Norm	Kaufman, Charles	Geology & Environmental Geosciences	Hazardous Materials Emergency Preparedness Grant--Dorchester/Berkeley/Charleston Counties	Dorchester County/SC Emergency Management Division	US Department of Transportation	\$40,020	
Runyon, Cass		Geology & Environmental Geosciences	Brown/MIT Lunar Science Institute	Brown University	NASA	\$36,800	
Runyon, Cass		Geology & Environmental Geosciences	Supplement: NASA AO Joint student mission design projects.	Univ Alabama-Huntsville	NASA	\$15,000	
Sautter, Leslie		Geology & Environmental Geosciences	Implementation of Regional Integrated Ocean Observing Systems Support of RCOOS development in SECOORA	SECOORA/SC Sea Grant	NOAA	\$9,713	
Vulava, Vijay	Callahan, Timothy	Geology & Environmental Geosciences	Storm Hydrograph Separation Analysis for Paired Coastal Watersheds: An	Clemson University	NOAA	\$33,584	
						Total Geology & Environmental Geosciences	\$2,201,275
Langville, Amy		Mathematics	AF: Small: RUI: Ranking and Clustering by Integer and Linear Optimization	NSF (CISE-CCF)		\$399,897	
						Total Mathematics	\$399,897
Carson, Joe		Physics & Astronomy	RUI: Ground-Based and Space-Based Direct Imaging Surveys for Extrasolar Planets	National Science Foundation		\$278,876	
Chartas, George		Physics & Astronomy	Extreme Velocity Quasar Outflows and the Role of X-Ray Shielding	Smithsonian Astrophysical Lab	NASA	\$16,000	
Chartas, George		Physics & Astronomy	Energy Dependent X-Ray Microlensing	Smithsonian Astrophysical Lab	NASA	\$14,000	
Chartas, George		Physics & Astronomy	SWIFT: Monitoring the UV and X-ray Winds of mini-SAL Quasar PG 1115+080	NASA		\$38,000	
Hakkila, Jon	Neff, Jim	Physics & Astronomy	An International Workshop to Develop CONG Global Network	NSF		\$28,645	
Hakkila, Jon		Physics & Astronomy	Quantified confusion: Stochastic process modeling of astronomical data	Cornell University	NASA	\$30,518	
Jones, Linda		Physics & Astronomy	Lab support for collaboration with Mayo Clinic	Mayo Clinic		\$5,000	
Larsen, Michael		Physics & Astronomy	Absorption and Scattering in Correlated Random Media	Research Corporation for Science Advancement		\$35,000	
Lindner, Lee		Physics & Astronomy	Improved integration of SLOSH model simulations and local landmark data in a hurricane surge visualization model	University Corporation for Atmospheric Research (UCAR)		\$9,167	
Oprisan, Sorinel		Physics & Astronomy	CAREER: Prediction of Synchrony and Phase-Locked Modes in Neural Networks based on Stimulus Time Resetting Curve	NSF		\$210,000	
						Total Physics & Astronomy	\$665,206
						Total Sciences & Mathematics	\$8,515,750
PI	Co-I(s)	Department/Unit	Project Title	Sponsor	Originating Agency	Amount Funded	Totals
Ilgan, Guy		Counseling & Substance Abuse Services	Palmetto initiative for campus/community collaborations (PICCC)	SC Department of Alcohol & Other Drug Abuse Services (DAODAS)	US Dept of Justice	\$66,980	
						Total Counseling & Substance Abuse Services	\$66,980
Gilliard, Chris		Multicultural Student Programs and Services	Supplemental funds for Safe Zone project	Alliance For Full Acceptance		\$2,500	
						Total Multicultural Student Programs and Services	\$2,500
Thomas, Marjorie		Student Affairs	McNair Post-Baccalaureate Achievement	US Dept of Ed		\$220,000	
						Total Student Affairs	\$220,000
Lewis, Leroy		Upward Bound	The Regular Upward Bound Program at the College of Charleston Serving Berkeley and Charleston Counties, SC	US Dept. of Education		\$407,527	
						Total Upward Bound	\$407,527
						Total Student Affairs	\$697,007
						Total Funding in FY11	\$11,845,527