

The Office of Research and Sponsored Programs

ANNUAL REPORT FISCAL YEAR 2011

External Proposals Submitted/Awards Received

October 1, 2011

The Office of Research and Sponsored Programs

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ORSP Annual Report Introduction

The Office of Research and Sponsored Programs (ORSP) is pleased to publish its Annual Report for fiscal year (FY) 2011. As you are reading through this report, you will find that it is divided in two sections: proposals and awards. Both sections:

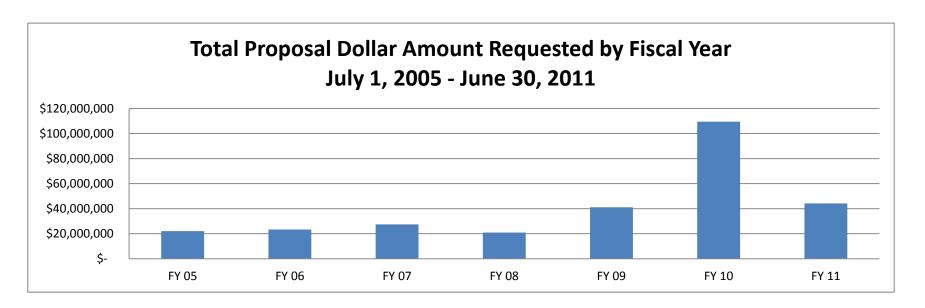
- list the total number of dollars requested and received from FY 2006 FY 2011
- disclose how many proposals were submitted and how many awards were received in FY 2011
- provide details of each proposal submitted and award received.

Notes to the FY 2011 Annual Report

In FY 2011, ORSP submitted 137 proposals totaling \$44,159,524. By comparison, in FY 2010, ORSP submitted 147 proposals totaling \$109,530,387; representing a difference of 10 proposals, or \$65,370,863.

The decline in the total dollars requested in FY 2011 was due in part to the on-going economic crisis, where less funding was available as a whole, cancelled grant competitions as well as smaller grant awards. Major funders such as the National Institutes of Standards and Technology (NIST), Department of Education (DOE), National Science Foundation (NSF), and the State of New Jersey, cut their budgets, affecting the total dollars available for funding. During FY 2010, President Obama passed the American Recovery and Reinvestment Act of 2009 (ARRA), which lead to increased federal funding availability for research at institutions of higher education. By FY 2011, the ARRA had concluded, and many of the new opportunities were no longer available.

Proposal Comparison by College / Division



Fiscal Year Proposal Dollar Amount Breakout by School / Division

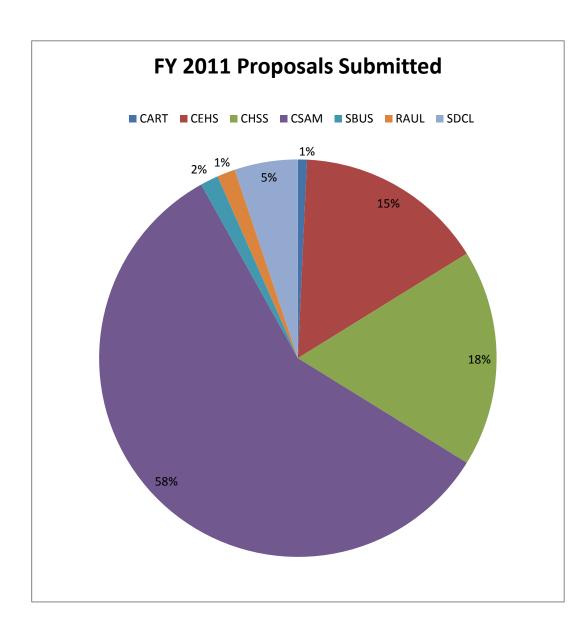
College / Division	<u>F\</u>	<u>′ 05</u>	<u>FY</u>	<u>′ 06</u>	<u>F`</u>	<u> 7 07 </u>	<u>F</u>	<u> </u>	<u>F`</u>	<u>/ 09</u>	<u>F</u>	<u>′ 10</u>	<u>FY</u>	<u>′ 11</u>
College of the Arts (CART)	\$	237,209	\$	976,854	\$	361,025	\$	285,305	\$	402,337	\$	90,000	\$	75,000
College of Education and Human Services (CEHS)	\$	7,754,590	\$	4,072,635	\$	6,098,173	\$	5,551,688	\$	5,126,617	\$	16,319,457	\$	5,028,492
College of Humanities and Social Sciences (CHSS)	\$	2,146,898	\$	2,206,611	\$	7,038,316	\$	2,915,284	\$	3,690,179	\$	2,560,913	\$	2,687,570
College of Science and Mathematics (CSAM)	\$	11,732,999	\$:	15,790,236	\$2	12,973,100	\$:	11,668,532	\$	29,732,692	\$	60,405,552	\$ 3	31,282,057
School of Business (SBUS)	\$	-	\$	-	\$	113,795	\$	-	\$	16,942	\$	5,000	\$	4,039,531
Research Academy of University Learning (RAUL)	\$	_	\$	-	\$	-	\$	-	\$	-	\$	557,530	\$	551,039
Student Development and Campus Life (SDCL)	\$	212,000	\$	281,600	\$	814,876	\$	464,809	\$	2,126,718	\$	29,591,935	\$	495,835

Totals: \$ 22,083,696 \$ 23,327,936 \$27,399,285 \$ 20,885,618 \$ 41,095,485 \$ 109,530,387 \$ 44,159,524

Breakdown of FY 2011 Proposals by College / Division

College / Division	Number of Proposals Submitted	% of Proposals Submitted
CART	1	1%
CEHS	21	15%
CHSS	24	18%
CSAM	79	58%
SBUS	2	1%
RAUL	2	1%
SDCL	7	5%

Total Proposals: 136



School Department ACADEMIC A		Project Title	Sponsor Name	Start Date	End Date	Amount Rec	<u>uested</u>
	THE ARTS (CART) ultural Programming Wheeler, Jedediah	NEA Access to Artistic Excellence FY11/12	National Endowment for the Arts	7 /1 /2011	6 /30/2012	\$	75,000
			Total Requ	ested fo	r CART :	\$	75,000
COLLEGE OF I	EDUCATION AND	HUMAN SERVICES (CEHS)					
Center of P	edagogy						
	Hopper, Cheryl	MSU Distinguished Fulbright Awards in Teaching Program	Academy for Educational Development	8 /1 /2011	12/31/2011	\$	288,107
	Hopper, Cheryl	Professional Development for Theme-based Academies	Paterson Public Schools	9 /1 /2011	8 /31/2013	\$	336,000
Counseling	and Educational Lea	adership					
	Bulkley, Katrina and McCotter, Suzanne	Data Use and Leadership Preparation: Multiple Pathways to the Data-Driven Principalship	Spencer Foundation	8 /1 /2011	7 /31/2012	\$	40,000
Curriculum	and Teaching						
	Domine, Vanessa	NSF Discovery Research K-12 (DR K-12)	National Science Foundation	7 /1 /2011	6 /30/2013	\$	109,818
	Goeke, Jennifer	Restructuring Preservice Preparation for Innovative Special Education (RePPrISE)		9 /1 /2011	8 /31/2016	\$	1,404,914
	Naiditch, Fernando	Teacher Professional Development in Sheltered English Instruction	New Jersey Department of Education	8 /1 /2011	7 /31/2012	\$	40,000
	Zaal, Mayida	The Performance Assessment Project	Community Studies, Inc. / Ford Foundation	9 /1 /2010	12/31/2010	\$	11,313
Dean's Offi	ce						
	Lucas, Tamara	Special Education Program & Services Evaluation (RFP-402-12) Paterson Public Schools	Paterson Public Schools	7 /1 /2011	12/31/2011	\$	130,000
Early Child	hood / Elementary Ed	lucation					
Larry Crima	Jacobson, Erik	Literacy System Analysis Project	New Jersey State Employment and Training Commission	6 /25/2011	11/30/2011	\$	20,000
	Wise, Linda and Freedson, Margaret	Paterson Public Schools: Reading Specialist, Bilingual & Special Education Endorsement Program	Paterson Public Schools	9 /1 /2011	12/31/2013	\$	723,900
Educationa	l Foundations						
Zausansne	Carolan, Brian	Exploring the Relationship of Middle Level Grade Span and Students' Cognitive and Non-Cognitive Outcomes: Estimates from the ECLS-K Eighth-grade Cohort	United States Department of Education / Institute of Education Sciences	7 /1 /2011	6 /30/2013	\$	252,874
	Carolan, Brian	Exploring the Relationship of Middle Level Grade Span and Students' Cognitive and Non-Cognitive Outcomes: Estimates from the ECLS-K Eighth-grade Cohort		7 /1 /2012	6 /30/2014	\$	306,345

School Department	<u>Lead Faculty</u> Child Studies	Project Title	Sponsor Name	Start Date	End Date	Amount I	Requested
raillily and	Brown, Tiffany and Goldstein, Sara	Peer Racial and Ethnic Socialization: Development and Validation of Measures for African American Adolescents	National Institutes of Health	7 /1 /2012	6 /30/2014	\$	136,371
	Urban, Jennifer	Using Systems Science Methodologies to Protect and Improve Population Health	National Institutes of Health - Subaward from University of North Carolina	4 /1 /2012	3 /31/2014	\$	18,351
	Urban, Jennifer	A Phase II Trial of the Systems Evaluation Protocol for Assessing and Improving STEM Education Evaluation	National Science Foundation - Subaward from Cornell University	8 /15/2011	7 /31/2014	\$	245,080
Health and	Nutrition Sciences						
	Donnelly, Joseph	Evaluation of NJ Title V: Abstinence Education	New Jersey Department of Health and Senior Services	7 /1 /2011	6 /30/2015	\$	337,003
	Goldfarb, Eva and Lieberman, Lisa	There Is Only One First Time: A Retrospective Study of Adolescent Willingness to Engage in Sex and Implications for Intervention	National Institutes of Health	7 /1 /2012	6 /30/2014	\$	127,577
	Kaelin, Mark	Epidemiology and the Energy Balance Equation (Supplement)	National Institutes of Health / NIAAA	10/1 /2010	9 /30/2011	\$	129,069
	Kaelin, Mark	SEPA: Epidemiology and the Energy Balance Equation	National Institutes of Health	10/1/2011	9/30/2012	\$	125,967
	Mahadevan, Meena	Applying the Socio-Ecological Model to Understand the Contextual Factors Influencing the Nutritional Health Outcomes of African American Substance Abusers	National Institutes of Health	9 /1 /2011	8 /31/2013	\$	65,803
	Wunderlich, Shahla	MSU Nutrition and Wellness Project (Year 8)	Hudson County Area Agency on Aging	1 /1 /2011	12/29/2011	\$	180,000
			Total Requ	ested fo	r CEHS :	\$	5,028,492
COLLEGE OF H	HUMANITIES AND	SOCIAL SCIENCES (CHSS)					
Center for 0	Child Advocacy						
	McCormick, Robert	SHIP (Summer Housing Internship Program) - Transitions for Youth - Extension to MSU	New Jersey Department of Children and Families	3 /1 /2011	6 /30/2011	\$	131,702
English							
· ·	Afzal-Khan, Fawzia	From the Melody Queen to the Muslim Madonna: A Portrait of Female Pakistani Singers from 1947 to the Present	National Endowment for the Humanities	3 /1 /2012	3 /31/2013	\$	70,428
	Afzal-Khan, Fawzia and Connolly, Norma	EnGendering Justice: Women's Cross-Cultural Prison Narratives	New Jersey Council for the Humanities	1 /1 /2011	3 /25/2011	\$	18,114
	Afzal-Khan, Fawzia	From the Melody Queen to the Muslim Madonna: A Portrait of Female Pakistani Singers from 1947 to the Present		3 /1 /2011	2 /28/2012	\$	68,886
	Matthew, Patricia	Defining Virtue: Meanings Then and Now	National Endowment for the Humanities	7/1/2011	12/13/2012	\$	23,075
	Nicosia, Laura	(LRNE) Learning to Read with New Eyes	National Endowment for the Humanities	9 /1 /2011	3 /31/2013	\$	49,994

School Department Justice Stu		Project Title	Sponsor Name	Start Date	End Date	Amount Reques	ted
	Hunt, Jennifer	A Study of Human Terrain Systems	United States Institute of Peace	8 /1 /2011	7 /31/2013	\$	118,412
	Michalsen, Venezia and Connolly, Norma	Integrating Crime Victims' Issues into Justice Studies Curricula	University of Massachusetts at Lowell	10/1 /2010	3 /31/2011	\$	4,998
Linguistics	Fitzpatrick, Eileen	A Database to Test Verbal Deception	United States Department of Justice / National Institute of Justice	1 /1 /2012	12/31/2012	\$	199,141
Philosophy	and Religion Rogers, Dorothy	Women in the Tradition: Philosophers Then and Now	New Jersey Council for the Humanities	9 /15/2011	5 /15/2012	\$	3,000
	ence and Law						
	Smith, Brian	NEH Enduring Questions Grant Proposal: "What Sustains Liberty?"	National Endowment for the Humanities	6/1/2011	5 /30/2013	\$	19,505
	Spanakos, Anthony	PRE-PROPOSAL: Mini-Grant Proposal	New Jersey Council for the Humanities	11/1 /2011	9 /30/2012	\$	3,000
	Spanakos, Anthony	Publics, Politics, and World Creation: Drawing Theoretical Insights from Cases in Latin America, Asia, and the United States	Mellon-LASA Seminar	9 /1 /2011	5 /1 /2012	\$	20,775
Psychology	,						
	Cascardi, Michele	PTSD and Syndrome Testimony: The Legal System Response to Victims of Interpersonal and Intrafamilial Violence	University of Massachusetts at Lowell	10/1 /2010	3 /31/2011	\$	5,000
	Cascardi, Michele	Psychological Impact of Interpersonal and Intrafamilial Violence on Crime Victims	University of Massachusetts at Lowell	10/1 /2010	3 /31/2011	\$	5,000
	Dickinson, Jason	Collaborative Research: The Impact of Disclosure History and Interviewing Protocol on Children Reports of Inappropriate Touching	National Science Foundation - Collaborative with Central Michigan University	8 /1 /2011	7 /31/2014	\$	127,116
	Lakusta, Laura	Conceptual Foundations of Language: Infants' Representations of Sources and Goals in Events	National Science Foundation	1 /1 /2011	12/31/2013	\$	341,148
	Nooner, Kate	Neural Dissection of Hyperactivity/Inattention in Maltreated Children	National Institutes of Health	7 /1 /2011	6 /30/2013	\$	293,119
	Nooner, Kate	Discovery Science of Human Brain Function Across the Lifespan	National Institutes of Health	7/1/2011	6/30/2015	\$	47,568
	Pardo, Jennifer	RUI: Phonetic Convergence in Conversational Interaction	National Science Foundation	9 /1 /2011	8 /31/2015	\$	569,168
	Propper, Ruth	Research on Predictors of Emotional State and Cognitive Processing Abilities	Army Research Office	9 /1 /2011	8/31/2016	\$	472,554
Sociology							
	Besen-Cassino, Yasemin	Collaborative Research: Responses to Recession: Effects of Governmental Policies on the Gender Voting Gap	National Science Foundation - Collaborative with Fairleigh Dickinson University	6 /1 /2011	5 /30/2013	\$	90,867

School Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount	Requested
Spanish an	d Italian						
opanion an	Fiore, Teresa	PRE-PROPOSAL: Mangia Piano/Eat Slowly - The Internationalization of Local Italian Foodways	New Jersey Council for the Humanities	3 /6 /2011	3 /7 /2011	\$	3,000
	Galoppe, Raul	Adaptation, Performance, and Dissemination of Tirso de Molina's Don Gil	American Society for Theater Research	6/1/2011	5/31/2012	\$	2,000
			Total Requ	ested for	r CHSS :	\$	2,687,570
						•	, ,
COLLEGE OF S	SCIENCE AND MA	THEMATICS (CSAM)					
Biology / M	olecular Biology						
	Adams, Sandra and Monsen, Kirsten	Phage Genomics Research Initiative	Howard Hughes Medical Institute	7 /1 /2011	6 /30/2014	\$	-
	Bologna, Paul	Impacts of Invasive Sea Nettles (Chrysaora Quinquecirrah) on Planktonic Community Structure and Bloom Prediction Using Molecular Techniques	New Jersey SEA Grant Consortium	2 /1 /2012	1 /31/2014	\$	170,038
	Bologna, Paul	PRE-PROPOSAL: Impacts of Invasive Sea Nettles (Chrysaora quinquecirrha) and Ctenophores on Planktonic Community Structure and Bloom Prediction of Sea Nettles Using Molecular Techniques	New Jersey Department of Environment Protection	9 /1 /2011	8 /31/2012	\$	83,000
	Campanella, James, Gaynor, John, Bologna, Paul, and Prezant, Robert	PRE-PROPOSAL: Assessment of Genetic Stock of Mercenaria Mercenaria	New Jersey SEA Grant Consortium	2 /1 /2012	1 /31/2014	\$	169,988
	Dolcemascolo, Paolo	Assessment of the Water-borne Pathogen, Batrachochystrium Dendrobatidis, in New Jersey Amphibians and Their Habitat	United States Geological Survey	3 /1 /2011	2 /29/2012	\$	5,000
	Du, Charles	IPGA-RUI: HelitronScanner - A Tool for Identifying Transposons of the Highly Divergent Helitron Superfamily in Angiosperm Genomes	National Science Foundation	8 /1 /2011	8 /30/2013	\$	565,051
	Du, Charles	GEPR: Genomes of Aquatic Plants	National Science Foundation - Subaward from Rutgers University	9 /1 /2011	8 /30/2014	\$	107,594
	Egan, Mary and Monsen, Kirsten	DURIP/ARO: Host Vector Pathogen Molecular Ecology Instrumentation	Army Research Office	6 /15/2011	6 /14/2012	\$	135,942
	Egan, Mary	Molecular Ecology of Host-Vector-Pathogen Interactions	National Institutes of Health	7 /1 /2011	6 /30/2013	\$	446,770
	Halaby, Reginald	Lysosomal-mediated Apoptosis in Breast Cancer Cells Induced by Triptolide	National Institutes of Health	8 /1 /2011	7 /31/2013	\$	116,667
	Halaby, Reginald	MARC Program at Montclair State University	National Institutes of Health	6 /1 /2012	5 /31/2017	\$	2,394,801
	Hazard, Lisa and Monsen, Kirsten	Prevalence of Batrachochytrium and Ranavirus Pathogens Among New Jersey Amphibian Populations	New Jersey Department of Environment Protection	7 /1 /2011	6 /30/2012	\$	3,500
	Krumins, Jennifer	Soil Health Improvement Program	Barnegat Bay National Estuary	4 /1 /2011	6 /1 /2013	\$	25,156
	Molina, Carlos	Physiological Consequences of ICER Ubiquitination in Prostate Cancer	National Institutes of Health	9 /1 /2011	8 /31/2014	\$	358,621
	Vanderklein, Dirk and Campanella, James	Collaborative Research: Tall Versus Dwarf Pitch Pine: A Test of Hydraulic and Environmental Limitations on Growth and Intraspecific Physiological Variability	National Science Foundation	6 /1 /2011	5 /31/2014	\$	124,682
	Wu, MeiYin	Status of the Common Snapping Turtles in New Jersey: Assessment of Human Consumption Safety	New Jersey Department of Environment Protection	3 /1 /2012	12/31/2012	\$	3,500

School Department	<u>Lead Faculty</u> Wu, MeiYin	<u>Project Title</u> Status of the Common Snapping Turtles in New Jersey: Sustainability Assessment	Sponsor Name New Jersey Department of Environmental Protection	<u>Start Date</u> 1 /1 /2012	End Date 12/31/2012	Amour \$	nt Requested 3,484
Chemistry	/ Biochemistry						
	Hou, Shifeng and Feng, Huan	Size and Shape-controlled Synthesis of Metal Nanoparticles on Functionalized Graphene Surface	National Science Foundation	7 /1 /2011	6 /30/2014	\$	299,378
	Hou, Shifeng and Feng, Huan	Synthesis of Shape-controlled Platinum and Palladium Nanocrystals on Functional Graphene Surface	American Chemical Society - Petroleum Research Fund	9 /1 /2011	8 /31/2013	\$	49,838
	Hou, Shifeng and Feng, Huan	Surface Design of Graphene as Dual Functional Sorbents for Pollutant Removal	National Science Foundation	1 /1 /2012	12/31/2014	\$	336,388
	Hou, Shifeng	Nano-electrochemical Biosensors Using Ionic Liquids as Electrolytes	National Science Foundation	1 /1 /2012	12/31/2014	\$	322,638
	Konas, David	RUI: Mechanism and Application of Electrophilic Fluorination in the Synthesis of Optically Active Fluoroamino Acids	National Science Foundation	7 /1 /2011	6 /30/2014	\$	289,983
	Talaga, David	International Collaboration in Chemistry: Synthesis, Characterization of Helical Repeat Proteins in Silicon Nitride Nanopores	National Science Foundation - Collaborative with the University of Arkansas	9 /1 /2011	8 /31/2014	\$	364,501
	Talaga, David	Development of Multiscale Models Using Dissipative Particle Dynamics for Predictive Description of the Phenomenology of Electrophoretic Nanopore Translocation	National Institutes of Health - Subaward from Rutgers University	3 /1 /2012	2 /28/2016	\$	585,078
	Talaga, David	CMI: Development of Instrumentation and Methodology for Synchronous Electrical and Optical Measurements of Acromolecules Using Single Molecule Fluorescene in Artificial Nanopores	National Science Foundation	9 /1 /2011	8 /31/2014	\$	690,712
Computer S	Science						
	Fails, Jerry	EXP: EcoShare-Creating and Sharing Evidence-based Discoveries in Natural Settings	National Science Foundation	7 /1 /2012	6 /30/2015	\$	549,865
	Herbert, Katherine	Drug Tree: A Pharmacophylogenomic Platform to Study Protein-Ligand Binding Relationships	National Institutes of Health	9/30/2011	7/31/2016	\$	1,500,000
	Peng, Jing	A Multi-armed Bandit Approach to Information Integration	National Science Foundation	7 /1 /2011	6 /30/2014	\$	417,519
	Peng, Jing	Closed-Loop Learning Integrated Information Fusion	Air Force Research Laboratory	6 /1 /2011	5 /31/2014	\$	404,469
	Peng, Jing	Closed-loop Learning Integrated Robust Information Fusion with Applications to Wide Area Image Exploitation	,	9 /1 /2010	12/31/2010	\$	29,037
Dean, CSA							
	Prezant, Robert	Creating the New Jersey Sustainability Science STEP Center, NJSS-STEP	National Science Foundation	6 /1 /2011	5 /31/2016	\$	7,258,309

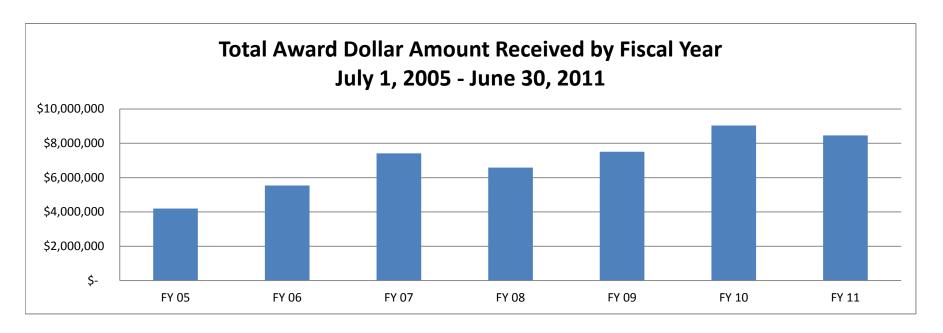
School Department	-	Project Title	Sponsor Name	Start Date	End Date	Amount Reques	sted_
	nvironmental Studies Barbooti, Mahmood	s Pilot Scale Removal of Heavy Metals from Wastewater by Adsorption	Department of the Interior / Bureau of Reclamation	10/1 /2011	9 /30/2013	\$	356,584
	Brachfeld, Stefanie	Static and Shock Pressure Treatment of Synthetic Mars Basalts: Implications for Understanding the Evolution of Crustal Magnetic Anomalies	National Aeronautic & Space Administration	7 /1 /2011	6 /30/2014	\$	499,392
	Deng, Yang	Review on the Status of Engineered Nanomaterials Research and Their Challenges and Opportunities for Water Reuse	WateReuse Research Foundation - Subaward from Southern Illinois University, Carbondale	7 /1 /2011	12/31/2011	\$	11,237
	Deng, Yang and Feng, Huan	Advanced Oxidation Process Coupled with Low-Energy Desalination (AOP-LED): Sustainable Wastewater Treatment and Reuse in Forward Operating Bases	Strategic Environmental Research and Development Program - Department of Defense		1 /31/2013	\$	149,797
	Deng, Yang, Sarkar, Dibyendu and Rakshit, Sudipta	Scrap Tire and Water Treatment Residuals as Novel "Green" Sorbents for Removal of Common Metals from Polluted Urban Storm Water Runoff	New Jersey Water Resources Research Institute	2 /28/2011	2 /27/2012	\$	14,966
	Deng, Yang, Feng, Huan and Hou, Sheffing	New Iron-Activated Persulfate Advanced Oxidation Processes (Fe2+/S2O82 AOP) for Water Reclamation and Reuse	Department of the Interior / Bureau of Reclamation	1 /1 /2012	1 /31/2013	\$	150,000
	Deng, Yang	Fenton Process: An Innovative, Effective, Low-Cost, and Environmental Friendly-Decentralized Sewage Treatment Technology for Developing Countries	Gates Foundation	7 /1 /2011	12/31/2012	\$	100,000
	Deng, Yang and Feng, Huan	PRE-PROPOSAL: Urban Estuarine Ecological Restoration Study: Sediment Detoxification in the New York Harbor-Estuary System	Hudson River Foundation	7 /1 /2011	6 /30/2013	\$	196,111
	Deng, Yang	Thermal Persulfate Oxidation (TPO) for On-Site Simultaneous Removal of Refractory Organic Contaminants and Ammonia in Landfill Leachate	Environmental Research and Education Foundation	1 /1 /2011	12/31/2012	\$	107,239
	Feng, Huan and Wu, MeiYin	Ecological Engineering Study of Heavy Metal Uptake by Wetland Plants for Brownfield Remediation and Wetland Rehabilitation	National Science Foundation	4 /1 /2011	3 /31/2014	\$	297,219
	Feng, Huan	PRE-PROPOSAL: International Collaboration in Chemistry: Study of Graphene-supported Metal Nanoparticles and Their Catalytic Function in Biomass and Non-Petroleum Fossil Transformation	National Science Foundation	10/1 /2011	9 /30/2014	\$	=
	Feng, Huan	Factors Controlling Chemical Speciation and Bioremediation of Heavy Metal Pollutants in Industrial Estuarine Sediments - Revealed by Synchrotron Techniques and 2-Dimensional Sensors	New Jersey SEA Grant Consortium	2 /1 /2012	1 /31/2014	\$	169,075
	Galster, Josh and Vanderklein, Dirk	The Ecohydrology of Japanese Knotweed and Its Impact on Stream Baseflow	National Science Foundation	5 /1 /2012	5 /1 /2015	\$	271,267
	Ophori, Duke and Galster, Josh	Impacts of Road Deicing Salts on Drinking Water, Northern New Jersey	United States Geological Survey	9 /1 /2011	8 /31/2013	\$	98,512
	Passchier, Sandra	Early Pliocene Record of Antarctic Ice Rafting and Paleoenvironmental Conditions, Wilkes Land Margin, Antarctica	National Science Foundation	1 /1 /2011	12/31/2013	\$	183,565
	Pope, Gregory	Fire Influenced Soil Clay Alteration in the New Jersey Pine Barrens	National Science Foundation	9 /1 /2011	8 /31/2014	\$	194,431
;	Sarkar, Dibyendu	Water Treatment Residuals as a Green Sorbent for Antibiotics in Waste Water	National Science Foundation	9 /1 /2011	8 /31/2013	\$	335,317

School Department	<u>Lead Faculty</u> Sarkar, Dibyendu	Project Title The Affect of Low Dose Oil-Corexit Exposure on Induction and Maintenance of Vaccine Immunity	Sponsor Name National Institutes of Health - Subaward from the University of Texas	Start Date 12/1 /2010	End Date 11/30/2012	\$ 141,5	18
	Sarkar, Dibyendu	A Novel, "Green", Cost-Effective Method to Sequester Arsenic and Antibiotics in Poultry Litter and Litter-Amended Soils	United States Poultry and	10/1 /2010	9 /30/2012	\$ 72,1	39
	Sarkar, Dibyendu	Source Reduction for Torch Lake BUI Removal: A Sustainable Solution	United States Environmental Protection Agency	7 /1 /2011	6 /30/2013	\$ 198,1	70
	Sarkar, Dibyendu	US - Thailand - India Collaborative Research on the Use of Vetiver Grass to Manage Shrimp Pond Contamination and Erosion	National Science Foundation	6 /1 /2011	5 /31/2012	\$ 72,9	70
	Sarkar, Dibyendu	Glauconitic Soils in New Jersey Coastal Plains: Potential for Denitrification	New Jersey Water Resources Research Institute	2/28/2011	2/27/2012	\$ 14,9	66
	Sarkar, Dibyendu and Rakshit, Sudipta	Reversing Vegetation Degradation of Torch Lake AOC	National Oceanic & Atmospheric Administration - Subaward from Michigan Technical University	8 /1 /2011	1 /31/2013	\$ 281,3	00
Institute for	r Sustainability						
	Weinstein, Michael, Wu, MeiYin and Feng, Huan	Using Stable Isotope "Biomarkers" and Biochemical Condition of a Marine Transient Finfish to Infer Habitat Quality of Restored Wetlands	National Science Foundation	1 /1 /2012	12/31/2013	\$ 242,0	78
	Weinstein, Michael and Barrett, Kirk	Availability and Bioaccumulation of Sedimentary 2,3,7, 8-TCDD and Other Persistent Bioaccumulative Toxic Compounds in the Lower Passaic River	Hudson River Foundation	8 /1 /2011	7 /31/2012	\$ 24,8	19
Mathematic	cal Sciences						
	Choi, Youngna	Predicting Financial Crises: Market Instability Indicator	National Science Foundation		8 /31/2014	\$ 130,2	
	Cutler, Jonathan	RUI: Extremal Problems Related to Homomorphisms of Graphs and Hypergraphs	National Science Foundation	9 /1 /2011		\$ 118,1	
	Cutler, Jonathan Cutler, Jonathan	Collaboration Grant for Mathematicians Extrenal Problems Related to Homomorphisms of Graphs	Simons Foundation National Security Agency	7 /1 /2011 6 /1 /2012	6 /30/2016 5 /31/2014	\$ 35,0 \$ 38,4	
	Forgoston, Eric	and Hypergrahs Regional Sensing of Stochastic Environments Using	Office of Naval Research	4 /1 /2011	3 /31/2014	\$ 508,5	75
	Li, Aihua	Autonomous Systems Advanced Algebraic Methods in Multivariate Polynomial Interpolation and Applications in Discrete Times Series Modeling	National Security Agency	1 /1 /2012	12/31/2013	\$ 59,8	94
	Li, Aihua	Collaborative Research in Modeling Nanoparticle Percolation of Conductivity	Simons Foundation	7 /1 /2011	6 /30/2016	\$ 35,0	100
	Thomas, Diana	Validation of Mathematical Weight Loss Prediction Models	National Institutes of Health	9 /1 /2011	8 /31/2013	\$ 284,3	09
	Thomas, Diana	A Computational Model to Determine Energy Intake During Weight Loss	National Institutes of Health	9 /1 /2011	8 /31/2014	\$ 302,8	61
	Thomas, Diana	Validation of Mathematical Weight Loss Prediction Models	National Institutes of Health	6/1/2012	5/31/2014	\$ 256,0	45
	Thomas, Diana	Personalized Management of Body Weight During Pregnancy	National Institutes of Health - NIDDK	1 /1 /2012	12/31/2017	\$ 46,8	10

School Department	<u>Lead Faculty</u> Vaidya, Ashwin Vaidya, Ashwin	Project Title Collaborative Research in Complex Systems Multi-Scale Spatio-temporal Modeling to Decipher Amyloid Aggregation in Neurodegenerative Diseases	Sponsor Name Simons Foundation National Institutes of Health - Subaward from Virginia Commonwealth University	<u>Start Date</u> 7 /1 /2011 1 /1 /2012	End Date 6 /30/2016 12/31/2014	Amou	35,000 353,599
	Vaidya, Ashwin	Collaborative Research: A Theoretical and Experimental Study of Unsteady Fluid Solid Interaction	National Science Foundation	7 /1 /2011	6 /30/2014	\$	131,277
	Wolff, Kenneth	Professional Development Services for Middle School Mathematics Teachers - Purchasing Reference #7871	Newark Public Schools	1/11/2011	6/30/2012	\$	54,769
Passaic Riv	er Institute						
	Barrett, Kirk	Paterson Passaic River Environmental Stewardship Initiative	New England Interstate Water Pollution Control Commission	8 /1 /2011	7 /31/2012	\$	31,846
	Barrett, Kirk	Climate Literacy and Global Climate Change Education	National Aeronautic & Space Administration	9 /1 /2011	8 /31/2013	\$	130,771
	Barrett, Kirk	Paterson Passaic River Environmental Stewardship Initiative	United States Environmental Protection Agency	9 /1 /2011	8 /31/2012	\$	34,760
	Barrett, Kirk and Hagiwara, Sumi	Science at the Coast: Service Learning and Professional Development to Increase Coastal / Ocean Literacy Among Elementary Students and Teachers	NOAA / Estuarine Reserves Division	7 /1 /2012	6 /30/2014	\$	447,750
	Barrett, Kirk	Explore NJ: Promoting Geoscience to African and Hispanic American High School Students in Northeastern New Jersey	National Science Foundation	8 /1 /2011	7 /31/2013	\$	198,896
	Barrett, Kirk	Reduction of Pathogen and Phosphorus Loads to Northeastern New Jersey Waterbodies Through Coordinated Management of Resident Canada Geese	New Jersey Department of Environment Protection	3 /1 /2011	2 /28/2014	\$	247,791
Sokol Cher	nistry / Biochemistry						
GONG! GIIG!	Siekierka, John	Sokol Institute for Pharmaceutical Life Sciences	National Institute of Standards and Technology	10/29/2011	4/30/2013	\$	5,214,103
Profession	al Pasaurcas In Sciar	nces and Mathematics (PRISM)					
FIOIESSION	Willis, Jacalyn	CUSP: Creative University-School Partnerships - Year 2	New Jersey Department of Education	7 /1 /2011	6 /30/2012	\$	592,000
			Total Requ	ested for	CSAM:	\$	31,282,057
2011201 25 5			•				
	USINESS (SBUS)						
Accounting	J, Law & Taxation Romero, Silvia	PCAOB Inspections: The Key to Non-Deficiency Reports	Center for Audit Quality	7 /1 /2011	12/31/2011	\$	19,531
Marketing							
	Mukherjee, Avinandan	Teaching and Instruction Services: Certified Public Manager Program Proposal 12 - X - 21980	New Jersey Department of the Treasury	9 /1 /2011	8 /31/2014	\$	4,020,000
			Total Requ	ested for	SBUS :	\$	4,039,531

School Department		Project Title	Sponsor Name	Start Date	End Date	Amou	unt Requested
RESEARCH AC	SADEMY FOR UNI	VERSITY LEARNING (RAUL)					
	Bain, Kenneth	Toward Deep and Transformational Learning: The BT to P Engaged Fellows Program at Montclair State University	Association of American Colleges & Universities	8 /15/2010	7 /31/2011	\$	10,000
	Bain, Kenneth, Murdock, Bryan, and Thomas, William	The MSU EECO (Environment, Education, and Community Outreach) Project	New Jersey Commission on National and Community Service	9 /1 /2011	8 /31/2012	\$	273,844
	Bain, Kenneth	PRE-PROPOSAL: Natural Critical Learning Environments in Virtual Exhibits : A Path to Deep Learning	Gates Foundation	N/A	N/A	\$	267,195
			Total Requ	ested fo	RAUL:	\$	551,039
STUDENT DE	VELOPMENT AN	ND CAMPUS LIFE (SDCL)					
Environme	ntal Health & Safety						
	Ferdinand, Amy and Sarkar, Dibyendu	Transferability of Mini-scale Chemistry Techniques: A Comparison of Methods to Evaluate the Nutrient Value of Beneficial Use Materials	United States Environmental Protection Agency	9 /1 /2011	9 /1 /2014	\$	138,467
	Ferdinand, Amy	Montclair State University Solid Waste Management Program: Food Waste Recycling Demonstration Project	New Jersey Department of Environmental Protection	1 /1 /2011	12/1 /2011	\$	20,000
Health Pron	notion						
	Barry, Donna and Cell, Paul	Montclair State University Victim Services and Training Initiative	United States Department of Justice / Office on Violence Against Women	10/1 /2011	9/30/2014	\$	300,000
I ibrami Cam	ulaaa						
Library Ser	Martinez, Paul	Sprague Library Archives at Montclair State University	National Endowment for the Humanities	1 /1 /2012	12/31/2012	\$	3,887
University F	Polico						
Oniversity r	Cell, Paul	2011 Click It or Ticket (CIOT) Mobilization	New Jersey Division of Highway Traffic Safety	5 /23/2011	6 /5 /2011	\$	4,000
	Cell, Paul	Live Scan/Mugshot Photo Workstation	New Jersey Office of Homeland Security	7 /2 /2010	6 /30/2011	\$	25,831
	Cell, Paul	FY11 BulletProof Vest Grant Program	New Jersey Department of Law & Public Safety	7 /1 /2011	6 /30/2012	\$	3,650
			Total Requ	ested fo	SDCL :	\$	495,835
				Gran	d Total:	\$	44,159,524

Award Comparison by College / Division



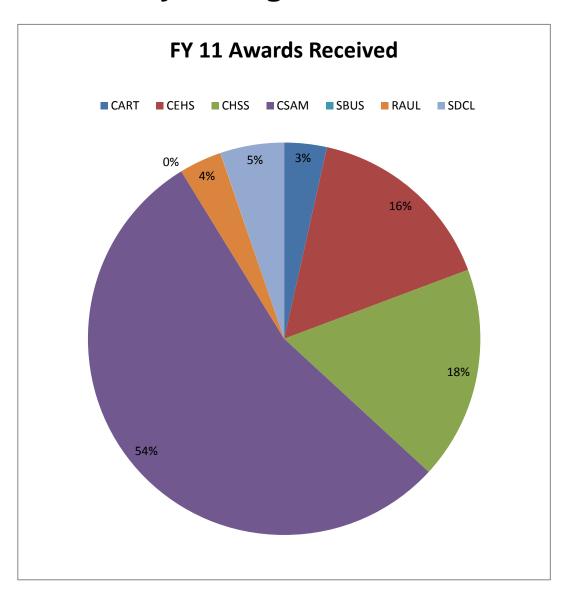
Fiscal Year Award Dollar Amount Breakout by School / Division

College / Division	<u>FY</u>	<u>′ 05</u>	FΥ	<u>06</u>	<u>F)</u>	<u>′ 07</u>	<u>F</u>	<u> </u>	<u>F</u>	<u>′ 09</u>	FΥ	<u>10</u>	<u>FY</u>	11
College of the Arts (CART)	\$	58,884	\$	108,900	\$	81,000	\$	104,478	\$	167,340	\$	106,872	\$	65,622
College of Education and Human Services (CEHS)	\$	2,368,218	\$	2,519,946	\$	2,394,407	\$	740,707	\$	2,022,860	\$	2,922,640	\$	1,949,121
College of Humanities and Social Sciences (CHSS)	\$	234,202	\$	563,282	\$	1,000,688	\$	3,133,548	\$	1,137,734	\$	1,725,575	\$	1,899,060
College of Science and Mathematics (CSAM)	\$	1,521,782	\$	2,118,194	\$	3,905,434	\$	2,493,001	\$	4,111,542	\$	4,244,914	\$	4,224,941
School of Business (SBUS)	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Research Academy of University Learning (RAUL)	\$	-	\$	-	\$	-	\$	-	\$	-			\$	270,000
Student Development and Campus Life (SDCL)	\$	16,500	\$	225,900	\$	33,200	\$	115,918	\$	73,000	\$	35,500	\$	52,956
Totals:	\$	4,199,586	\$	5,536,222	\$	7,414,729	\$	6,587,652	\$	7,512,476	\$	9,035,501	\$	8,461,700

Breakdown of FY 2011 Awards by College / Division

College / Division	Number of Awards Received	% of Awards Received
CART	2	4%
CEHS	9	16%
CHSS	10	18%
CSAM	31	54%
SBUS	0	0%
RAUL	2	4%
SDCL	3	5%

Total Awards: 57



School Department Lead Faculty ACADEMIC AFFAIRS	Project Title	Sponsor Name	Start Date End Date	Amount Awarded
COLLEGE OF THE ARTS (CAI	RT)			
Rodriguez, Teresa	General Programming Support, FY2011	New Jersey State Council for the Arts	07/01/10 06/30/11	\$ 13,503
Arts and Cultural Programn Wheeler, Jedediah	ning General Programming Support, FY 2011	New Jersey State Council for the Arts	07/01/10 06/30/11	\$ 52,119
			otal for CART :	\$ 65,622
COLLEGE OF EDUCATION AN	ND HUMAN SERVICES (CEHS)			
Robinson, Jennifer	FY 2009 Teacher Quality Partnership Grant Competition (Year 2)	United States Department of Education	10/01/10 09/30/11	\$ 1,355,597
Counseling and Educationa Bulkley, Katrina and McCotter, Suzanne	al Leadership Data Use and Leadership Preparation: Multiple Pathways to the Data-Driven Principalship	Spencer Foundation	06/01/11 07/31/12	\$ 40,000
Curriculum and Teaching Zaal, Mayida	The Performance Assessment Project	Community Studies, Inc.	09/01/10 12/31/10	\$ 11,313
Educational Foundations Reznitskaya, Alina	Measuring the Dialogic Quality of Classroom Talk	Spencer Foundation	09/01/10 08/31/11	\$ 39,725
Family and Child Studies Urban, Jennifer	A Phase II of the Systems Evaluation Protocol for Assessing and Improving Stem Education Evaluation (Supplement)	National Science Foundation - Subaward from Cornell University	10/01/10 07/31/13	\$ 60,478
Urban, Jennifer	A Phase II of the Systems Evaluation Protocol for Assessing and Improving Stem Education Evaluation (Supplement)	National Science Foundation - Subaward from Cornell University	09/01/10 08/31/11	\$ 20,000
Health and Nutrition Science				
Kaelin, Mark	Epidemiology and the Energy Balance Equation (Supplement)	National Institutes of Health	09/21/10 05/31/11	,
Lieberman, Lisa	Evaluation Piece for Teen Pregnancy Care Program (Year 1)	United States Department of Health and Human Services - Subaward from Inwood House	09/01/10 08/31/11	\$ 132,940
Wunderlich, Shahla	MSU Nutrition and Wellness Project (Year 8)	Hudson County Area Agency on Aging	01/01/11 12/31/11	\$ 160,000
			otal for CEHS :	\$ 1,949,121
COLLEGE OF HUMANITIES A Center for Child Advocacy	ND SOCIAL SCIENCES (CHSS)			
McCormick, Robert	New Jersey Child Welfare Training Consortium	New Jersey Department of Children and Families - Subaward from Rutgers University	07/01/10 06/30/11	\$ 1,234,419

School Department	Lead Faculty McCormick, Robert	Project Title SHIP (Summer Housing Internship Program)	Sponsor Name New Jersey Department of Children and Families - Subaward from Rutgers	Start Date End Date 03/01/11 06/30/11		<u>arded</u> 1,702
	McCormick, Robert	Post BA Certification in Child Advocacy	University New Jersey Division of Youth and Family Services	09/01/10 08/31/11	\$ 233	3,248
Classics	and General Humai	nities				
Cidolico	English, Mary	Editor, The Classical Outlook: Journal of the America	The American Classical League	07/01/10 03/31/11	\$ 1	1,500
Commun	ication Sciences ar	nd Disorders				
•	Eisenberg, Sarita	A Domain-Referenced Strategy for Differentiating Children With and Without Language Impairment	National Institutes of Health	09/01/10 08/31/11	\$ 169	9,135
English						
J	Afzal-Khan, Fawzia and Connolly, Norma	EnGendering Justice: Women's Cross-Cultural Prison Narratives	New Jersey Council for the Humanities	01/01/11 03/25/11	\$ 15	5,434
Linguisti	••					
Linguisti	Feldman, Anna	RE: EAGER: A Montclair Group in Cognitive and Computational Aspects of Language and Speech Processing: An Exploration	National Science Foundation	09/01/10 08/31/12	\$ 75	5,117
	Feldman, Anna	Undergraduate Research for Resource-Light Morphosyntactic Tagging of Morphologically Complex Languages	National Science Foundation	06/01/11 05/31/12	\$ 16	6,000
Philoson	hy and Religion					
·	Rogers, Dorothy	Women in the Tradition: Philosophers Then and Now	New Jersey Council for the Humanities	09/15/11 05/15/12	\$ 3	3,000
Political	Science and Law					
	Smith, Brian	"What Sustains Liberty?"	National Endowment for the Humanities		·	9,505
			10	tal for CHSS :	\$ 1,899,0	UOU
	SCIENCE AND Mand Molecular Biolo	MATHEMATICS (CSAM)				
	Adams, Sandra and Monsen, Kirsten	Phage Genomics Research Initiative	Howard Hughes Medical Institute	07/01/10 06/30/14	•	-
	Dolcemascolo, Paolo	Assessment of the Water-borne Pathogen, Batrachochystrium Dendrobatidis, in New Jersey Amphibians and Their Habitat	United States Geological Survey - Subaward from Rutgers University	03/01/11 02/29/12	\$ 5	5,000
	Du, Charles	TRPGR: New Reverse Genetics Resources for Maize: Production and Indexing Using Next-Gen Sequencing	National Science Foundation - Subaward from Rutgers University	09/01/10 08/31/11	\$ 65	5,484
	Halaby, Reginald	Establishment of a MARC Program at Montclair State University (Year 5)	National Institutes of Health	06/01/11 05/31/12	\$ 394	1,512
	Hazard, Lisa and Monsen, Kirsten	Prevalence of Batrachochytrium and Ranavirus Pathogens Among New Jersey Amphibian Populations	New Jersey Department of Environmental Protection	05/23/11 05/23/12	\$ 3	3,500
	Krumins, Jennifer	Soil Health Improvement Program	United States Environmental Protection Agency - Subaward from Ocean	01/01/11 06/30/13	\$ 25	5,156
	Petroff, Elena	Interaction of ASIC and BK Channels and Its Role in Glial Proliferation	National Institutes of Health	04/15/11 04/14/14	\$ 320	0,657

School Department	<u>Lead Faculty</u> Wu, MeiYin	Project Title Collaborative Research: Greenhouse Gas Balance of Urban	Sponsor Name National Science Foundation	<u>Start Date</u> 09/01/10	End Date 08/31/12	<u>Awarded</u> 25,776
	Wu, MeiYin	Temperate Wetlands (Years 1 and 2) Status of the Common Snapping Turtles in New Jersey: Assessment of Human Consumption Safety	New Jersey Department of Environmental Protection	05/23/11	05/23/12	\$ 3,500
	Wu, MeiYin	Status of the Common Snapping Turtles in New Jersey: Sustainability Assessment	New Jersey Department of Environmental Protection	05/23/11	05/23/12	\$ 3,500
	Wu, MeiYin	Ultrasound Technology for Great Lakes Ballast Water Treatment			06/30/13	\$ 673,530
Compute	r Science					
	Peng, Jing	Closed-Loop Learning Integrated Robust Information Fusion with Applications to Wide Area Image Exploitation	Air Force Research Laboratory - Subaward from Syracuse University	09/01/10	12/31/10	\$ 29,040
	Robila, Stefan and Weinstein, Michael	Decision Support System for IT Management	PSE&G	12/01/10	11/30/12	\$ 218,000
	Robila, Stefan	Montclair REU Site in Imaging and Computer Vision (iMagine) (Year 2)	National Science Foundation	04/01/11	03/31/12	\$ 95,920
Dean's O	ffice					
	Prezant, Robert	LSAMP The Garden State Alliance for Minority Participation (Year 2)	National Science Foundation - Subaward from Rutgers University	07/01/10	06/30/11	\$ 112,187
Earth and	l Environmental St	udies				
	Brachfeld, Stefanie	Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, A Multidisciplinary Approach, Marine	National Science Foundation	10/01/11	09/30/12	\$ 96,477
	Brachfeld, Stefanie	and Quaternary Geosciences (Years 4 and 5) Static and Shock Pressure Treatment of Synthetic Mars Basalts: Implications for Understanding the Evolution of Crustal Magnetic Anomalies	National Aeronautic and Space Administration	07/01/11	06/30/12	\$ 143,022
	Chopping, Mark	Forest and Shrub Mapping with MISR (Supplement)	National Aeronautic and Space Administration	04/01/11	12/31/11	\$ 20,000
	Chopping, Mark	Forest and Shrub Mapping with MISR (Supplement)	National Aeronautic and Space Administration	03/19/10	12/31/11	\$ 19,975
	Chopping, Mark	Mapping Changes in Shrub Abundance and Biomass in Artic Tundra Using NASA Earth Observing System Data and Geometric- Optical Modeling (Partial Funding of Year 2 and of Year 3)	National Aeronautic and	07/01/11	06/30/12	\$ 142,760
	Chopping, Mark	A Decade of Changes in Aboveground Live Standing Dry Biomass, Canopy Cover, Height, and Understory Density in the Southwestern United States from EOS MISR and MODIS (Year 1)	National Aeronautic and Space Administration	01/01/11	12/31/11	\$ 137,674
	Passchier, Sandra	Participation in IODP Expedition 318 Wilkes Land Glacial History	Consortium for Ocean Leadership	01/04/10	01/07/13	\$ 14,959
	Passchier, Sandra	Early Pliocene Record of Antarctic Ice Rafting and Paleoenvironmental Conditions, Wilkes Land Margin, Antarctica	National Science Foundation	03/15/11	02/18/14	\$ 183,565
Mathema	tical Sciences					
	Billings, Lora	Multi-Scale Modeling of Infectious Diseases in Fluctuating Environments (Year 2)	National Institutes of Health	09/01/10	08/31/11	\$ 264,592
	Forgoston, Eric	Sensing in Stochastic Environments Using Coupled Systems	Naval Research Laboratory	09/01/10	08/31/12	\$ 49,990

School Department	<u>Lead Faculty</u> Fuller, Evan	Project Title Proving Styles in University Mathematics (Year 1)	Sponsor Name National Science Foundation - Subaward from Rutgers University		End Date 10/31/11		15,700	
	Thomas, Diana	A Computational Model to Determine Energy Intake During Weight Loss	National Institutes of Health	08/01/11	07/31/14	\$	302,860	
	Wolff, Kenneth	Professional Development Services for Middle School Mathematics Teachers	Newark Public Schools	01/11/11	06/30/12	2 \$	54,000	
	Yecko, Philip and Trubatch, David	RUI: Multi-Scale Modeling of Interfacial Flows of Magnetic Fluids with Macro-chain Aggregates (Year 1)	National Science Foundation	09/15/10	08/31/11	\$	77,807	
Passair F	River Institute							
1 400410 1	Barrett, Kirk	REU Site: Transdisciplinary Environmental Science Research on Forest Lakes in Northwest New Jersey	National Science Foundation	10/01/10	09/30/12	2 \$	133,798	
Professio	nal Resources In S	ciences and Mathematics (PRISM)						
110103310	Willis, Jacalyn	CUSP: Creative University-School Partnerships (Year 2)	New Jersey Department of Education	07/01/11	06/30/12	2 \$	592,000	
				otal for (CSAM:	\$ 4	,224,941	
							, ,-	
RESEARCH ACA	DEMY FOR UNIVER Bain, Kenneth	SITY LEARNING (RAUL) The MSU EECO (Environment, Education, and Community Outreach) Project (Year 1)	New Jersey Commission on National and Community Service	09/01/10	12/31/11	\$	260,000	
	Bain, Kenneth, Murdock, Bryan, and Thomas, William	Toward Deep and Transformational Learning: The BT to P Engaged Fellows Program at Montclair State University	Association of American Colleges and Universities	08/15/10	07/31/11	\$	10,000	
	,		т	otal for	RAUL:	\$	270,000	
	nental Health and S	Γ AND CAMPUS LIFE (SDCL) afety Montclair State University Solid Waste Management Program:	Now Jarony Donortment of	04/04/44	01/01/12	о Ф	23.125	
	Ferdinand, Amy	Food Waste Recycling Demonstration Project	New Jersey Department of Environmental Protection	01/01/11	01/01/12	ζ ֆ	23,125	
Universit	v Police							
Onversit	Cell, Paul	2011 Click It or Ticket (CIOT) Mobilization	New Jersey Division of Highway Traffic Safety	05/23/11	06/05/11	\$	4,000	
	Cell, Paul	Live Scan/Mugshot Photo Workstation	New Jersey Office of Homeland Security	07/02/10	06/30/11	\$	25,831	
				otal for			52,956 d Total :	\$8,461,700