



American Recovery and Reinvestment Act (ARRA)



ARRA-funded Projects @ UNH

Last updated 11/06/09

Submit questions to: research.info@unh.edu

(Keys to PI Affiliation and Project Sponsor acronyms provided below table.)

Principal Investigator	PI Affiliation	Project Sponsor	Project Title	Project Summaries	
				General	Technical
Amitava Bhattacharjee	Space Science Center, EOS	NSF	Stability of Thin Current Sheets in the Magnetotail: Theory, Simulations, and Observations	General	Technical
Vaughn Cooper	Dept. of Molecular, Cellular & Biomedical Sciences, COLSA	NIH	Ecological Population Structure and Emergence of Virulent <i>Vibrio Parahaemolyticus</i>	General	Technical
Vaughn Cooper	Dept. of Molecular, Cellular & Biomedical Sciences, COLSA	NSF	CAREER: Quantifying Pleiotropy by Parallel Experimental Evolution	General	Technical
Vaughn Cooper	Dept. of Molecular, Cellular & Biomedical Sciences, COLSA	NSF	Understanding the Basis of Interactions between Adaptive Mutations and their Environment	General	Technical
Rick Cote	Dept. of Molecular, Cellular & Biomedical Sciences, COLSA	NIH	cGMP and Photoreceptor Function - Providing Summer Research Experiences	General	Technical
Mark Fahnestock	Complex Systems Research Center, EOS	NSF	Mass Transit: Controls on Grounding and Ungrounding at Marine Ice Sheet Outlets	General	Technical
Mark Fahnestock	Complex Systems Research Center, EOS	NSF	Quantifying Glacier-Fjord-Ocean Interactions and their Impact on Changing Ice Discharge: Kangia Nunata Sermia and Other Outlets, West Greenland	General	Technical
David Finkelhor	Crimes against Children Research Center, COLA	DOJ	Study of Scope, Investigation & Prosecution of Technology-Facilitated Child Exploitation Crimes: The 3rd National Juvenile Online Victimization Study	General	Technical
Todd Gross and Kent Chamberlin	Dept. of Mechanical Engineering, CEPS Dept. of Electrical and Computer Engineering, CEPS	NSF	Low Cost, High Bandwidth, and Non-Intrusive Machining Force Measurement System	General	Technical
Nivedita Gupta	Dept. of Chemical Engineering, CEPS	NSF	Capsule Dynamics in Channels	General	Technical
Lisa Jones	Crimes against Children Research Center, COLA	DOJ	Evaluation of Internet Child Safety Materials Used by ICAC Task Forces in School and Community Settings	General*	Technical
Marc Lessard	Space Science Center, EOS	NSF	Collaborative Research: PENGUIn - A High-Latitude Window to Geospace Dynamics	General	Technical
Marc Lessard	Space Science Center, EOS	NSF	Collaborative Research: Studies of Solar Wind - Magnetosphere Interactions Using Observations of ULF Waves at Manned Stations as Part of an Extensive Ground Array	General	Technical
Mark Lyon	Dept. of Mathematics and Statistics, CEPS	NSF	Development of Fast and High-order Accurate Time-domain PDE Solvers for Complex Geometries	General	Technical
Mary Mayhew	UNH Student Life	NH DOJ	VOCA-SHARPP	General	n/a
Kimberly Mitchell	Crimes against Children Research Center, COLA	DOJ	National Study of Internet and Technology Facilitated Risks to Youth	General	Technical

Principal Investigator	PI Affiliation	Project Sponsor	Project Title	Project Summaries	
Steve Pesci	Campus Planning, UNH Energy and Campus Development Division	NH DOT	UNH 14405 - Sidewalks, Multi-use Paths and Bicycle Shoulders on Route 155A in Durham	General	n/a
Alexander Proussevitch	Complex Systems Research Center, EOS	NSF	Ash Particles and the Bubbles that Make Them: Measuring Bubble Size from Ash Fragments for Insights Regarding Eruption Dynamics	General	Technical
Junhao Shen <i>and</i> Liming Ge	Dept. of Mathematics and Statistics, CEPS	NSF	Free Probability Theory and its Applications in Operator Algebras	General	Technical
Charles Smith	Space Science Center, EOS	NSF	NSWP: Automated Shock Analysis for Space Weather Predictions	General	Technical
W. Kelley Thomas	Hubbard Genomics Center, COLSA	NIH	The Rate and Molecular Spectrum of Spontaneous Mutations - Supplement	General*	Technical*
Dirk Timmons	University Transportation Services	FTA	4-35 ft. CNG replacement buses and miscellaneous equipment	General	n/a
Dirk Timmons	University Transportation Services	NH DES/ US EPA	Installation of diesel-powered auxiliary heaters to reduce idling as emission reduction technology on 7 existing Wildcat Transit buses	General	n/a
Scott Valcourt	Computing & Information Services	NSF	Collaborative Research: North East Cyberinfrastructure Consortium	General	Technical
Scott Valcourt	Computing & Information Services	NIH	Cellular and Molecular Mechanisms of Lung Disease -- COBRE Supplement	General*	Technical*
Cheryl Whistler	Dept. of Molecular, Cellular & Biomedical Sciences, COLSA	NSF	Collaborative Research: Use of Genome Enabled Tools to Understand Symbiosis	General	Technical
Wilhelm Wollheim	Complex Systems Research Center, EOS	NSF	Collaborative Research: How Does Changing Seasonality Affect the Capacity of Arctic Stream Networks to Influence Nutrient Fluxes from the Landscape to the Ocean?	General	Technical
Edward Wong	Dept. of Chemistry, CEPS	NIH	Radiopharmaceuticals Based on Cross-bridged Ligands -- Supplement	General	Technical
Charles Zercher	Dept. of Chemistry, CEPS	NIH	Zinc Carbenoid Approach to Peptide Isosteres	General*	Technical

*This summary will be available soon.

Project Sponsors

DOJ US Dept. of Justice
FTA Federal Transit Administration, US Dept. of Transportation
NH DES New Hampshire Dept. of Environmental Services
NH DOJ New Hampshire Dept. of Justice
NH DOT New Hampshire Dept. of Transportation
NIH National Institutes of Health, US Dept. of Health and Human Services
NSF National Science Foundation
US EPA US Environmental Protection Agency

PI Affiliations

CEPS College of Engineering and Physical Sciences
COLA College of Liberal Arts
COLSA College of Life Sciences and Agriculture
EOS Institute for the Study of Earth, Oceans and Space

