

Worcester Polytechnic Institute
 Report of Proposals Submitted
 March 2006

Department	PI	Co-Pi	Project Title	Sponsor	Total Requested	Cost Sharing
Chemical Engineering	Anthony Dixon		GOALI: Catalyst Deactivation and Heat Transfer Modelling for Fixed bed Reactors Using Coomputational Fluid Dynamics	National Science Foundation	\$222,219.00	\$0.00
	Terri A Camesano		Support for ACS Symposium "Structure, Interactions, and Reactivity at Microbial Surfaces"	Army Research Office	\$3,000.00	\$1,542.00
Chemistry and Biochemistry	Kristin Wobbe	Pamela Weathers	Steps Toward an Edible Cure for Malaria	Goldman Philanthropic Partnerships	\$25,000.00	\$9,822.00
Computer Science	Craig Wills	Robert Kinicki, Mark Claypool	CNS-NeTS: An Application-Centric, Cross-Layer Approach for Improved Performance with Wireless Networks	National Science Foundation	\$558,197.00	\$0.00
	Elke A Rundensteiner	Murali Mani	Automaton Meets Algebra: Towards an XML-Centric Stream Query System (REU)	National Science Foundation	\$12,000.00	\$0.00
	Kathi Fisler	Daniel Dougherty	Representation, Analysis, and Verification of Access Control in Dynamic Environments	Brown University	\$120,925.00	\$0.00
	Matthew O. Ward	Elke Rundensteiner	Quality-Aware Visual Exploration Tools (REU Supplement)	National Science Foundation	\$12,000.00	\$0.00
Electrical and Computer Eng'g.	Berk Sunar		Towards a Unified Methodology for Design of Cryptographic Devices Resistant to Combined Side-Channel Attacks	Boston University	\$430,766.00	\$0.00
	Wenjing Lou		NeTS-NBD: COLLABORATIVE RESEARCH: UPASS - An Attack-Resilient Security Architecture for Wireless Mesh Networks	National Science Foundation	\$310,231.00	\$0.00
	Wenjing Lou		NeTS-NOSS: COLLABORATIVE RESERCH: Securing Wireless Sensor Networks with Location-Based Keys	National Science Foundation	\$339,875.00	\$0.00
Fire Protection Eng'g.	Jonathan Barnett	Kathy Notarianni	Enhanced Tools for Crime Scene Analysis	Department of Justice	\$155,641.00	\$0.00
Gordon Library	Rodney Obien	Lora Brueck	Digitizing the Diaries of Theo Brown	Massachusetts Board of Library Commissioners	\$8,129.00	\$2,000.00

Worcester Polytechnic Institute
 Report of Proposals Submitted
 March 2006

Humanities and Arts	Svetlana Nikitina		Abstract Made Real: Improving Mathematics Teaching through Narrative and Analogy	Spencer Foundation	\$39,995.00	\$20,558.00
Mathematical Sciences	Homer F Walker		Algorithms and Software for C-SAFE	University of Utah	\$43,750.00	\$0.00
Mechanical Engineering	Diran Apelian	Daniel Backman	Optoelectronic Sensing of Liquid Metal Composition	wTe Inc.	\$138,956.00	\$0.00
Mechanical Engineering	Gretar Tryggvason		Multiscale Simulations of Multiphase Systems	National Science Foundation	\$320,125.00	\$0.00
	Gretar Tryggvason		Direct Numerical Simulations of Nucleate Flow Boiling	National Science Foundation	\$320,125.00	\$0.00
	John Blandino	Nikos Gatsonis, Michael Demetriou	Analysis of Drag-Free Spacecraft Motion and Control in Low Earth Orbit	Jet Propulsion Laboratory	\$30,000.00	\$0.00
Total for March 2006 (18 proposals)					\$3,090,934.00	\$33,922.00