

Worcester Polytechnic Institute
Report of Proposals Submitted
December 2005

Department	PI	Co-PI	Project Title	Sponsor	Total Requested	Cost Sharing
Biology and Biotechnology	Alex DiIorio	Theodore Crusberg	Recovery of Protein Product by Coupling Fermentation with Expanded Bed Chromatography	Biseps, Inc.	\$60,000.00	\$0.00
Chemical Engineering	Anthony Dixon		Catalyst Design and Detailed Modelling for Fixed Bed Reactors Using CFD	Johnson Matthey Catalysts	\$33,260.00	\$0.00
Computer Science	Elke Rundensteiner	John Woycheese	Real-Time Monitoring of Sensor Streams for Fire Spread Prediction	National Science Foundation	\$655,502.00	\$0.00
Computer Science	Elke Rundensteiner		COLLABORATIVE RESEARCH: SEI: On-Demand Propagation of Updates From Public Genomic Data Repositories	National Science Foundation	\$267,632.00	\$0.00
Computer Science	Matthew Ward	Elke Rundensteiner, Carolina Ruiz, Gretar Tryggvason	SEI: Monitoring, Steering, and Analysis of Large-Scale Multiphase Flow Simulation	National Science Foundation	\$849,502.00	\$0.00
Computer Science	Neil Heffernan		Scaling up a Web-based Formative Assessment System	Massachusetts Technology	\$24,999.00	\$0.00
Electrical and Computer Eng'g.	Berk Sunar		Fingerprinting Digital ICs	IBM Corporation	\$95,527.00	\$0.00
Electrical and Computer Eng'g.	Peder Pedersen	William Michalson, Yitzhak Mendelson, Grant McGimpsey, James Duckworth	Real-Time Troop Physiological Status Monitoring Systems Using a Common Wireless Network.	Army Research Office	\$3,225,000.00	\$0.00
Electrical and Computer Eng'g.	Wenjing Lou		Power-Aware / Energy-Efficient Routing and Security in Wireless Sensor Networks	AirSprite Technologies, Inc.	\$100,124.00	\$18,444.00
Mathematical Sciences	Balgobin Nandram		Bayesian Analyses of Nonignorable Nonresponse Using Propensity Scores	National Science Foundation	\$503,054.00	\$0.00
Mathematical Sciences	Marcus Sarkis		AMC-SS Analysis and Algorithms for Stochastic PDEs: Domain Decomposition and White Noise Techniques	National Science Foundation	\$370,937.00	\$0.00
Mechanical Engineering	William W. Durgin	Hamid Johari	Aircraft Wake Vortex Detection	Massachusetts Technology Collaborative	\$24,999.00	\$0.00
Totals for December 2005 (12 proposals)					\$6,210,536.00	\$18,444.00