

## Extramural Engineering Laboratory Grants & Cooperative Agreements Fiscal Year 2013 - New Awards

### Measurement Science and Engineering (MSE) Research Grant Program:

Institution	Title	Award
Oregon State University	Method for Sustainable Assembly in Aerospace Manufacturing	\$50,000
University of Michigan	Dynamic Modeling and Characterization of Electrostatic, Electrothermal, and Graphene Resonators Using Nanoscale-motion Optical Measurements	\$95,130
University of Michigan	Fabrication, Testing& Analysis of a Reference MEMS Actuator for Calibration of Optical Measurement Systems	\$38,525
Georgia Tech	Knowledge Driven Robotics for Assembly Operations	\$299,450
University of Texas - Austin	Standard Reference Material for Portland Cement Mortars	\$61,334
University of Maryland-Baltimore	Comparisons between Pressures Obtained in Wind Tunnel Flow with Conventional and Simplified Turbulent Flow Simulations	\$42,453
University of Maryland-Baltimore	Semantic Modeling for Manufacturing Service Capability Information	\$83,788
Wichita State University	Development of Baseline Composite CAD Model Test Cases	\$96,817
Catholic University	Advanced Simulation Models for Enabling Net-Zero Energy, High-Performance Buildings	\$147,199
George Washington University	Adaptive Network Control for Dynamic Production Systems	\$99,454
Advanced Technology International	Enable Advanced Manufacturing Capabilities in ISO 10303.	\$150,000
Morgan State University	Methodology for Dynamic Smart Manufacturing System Assessment	\$165,000
FXT Consulting LLC	The Interaction of the Gas-Phase Mechanisms of Fire Retardants with the Flame Structure	\$136,500
Fire Protection Research Foundation	Extension and Refinement of Test Methods and Performance Criteria for Standard Methods to Evaluate Cooking Fire Mitigation Technologies	\$65,279
Fire Protection Research Foundation	Pilot Demonstration of an Impact Evaluation Protocol: NIST NCST Recommendations of the Station Nightclub Fire	\$50,000
University of Arkansas	Multi-scale Computational Modeling to Connect Carbon Nanostructures to Microwave Response	\$61,830
George Mason University	Dual Evaporator-Condenser Mode in ISHED	\$29,994

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Vanderbilt University	Performance Impact of Secure Control System Design	\$495,716
University of California - Davis	Reduced Order Modeling of Progressive Collapse Simulation of Existing and Rehabilitated Precast Concrete Buildings	\$104,103
International Code Council	Wildfire Safe, Sound and Code Smart	\$65,279
University of Maryland-Baltimore	Development of Methods for Achieving Simulations of Specified flow Properties for Wind Tunnel & Computational Fluid Dynamics Estimation of Wind Effects on Low-Rise Buildings	\$61,833