



Measurement Science and Engineering (MSE) FY2018 Financial Assistance Awards

Recipient	Title	Funding FY 2018	Total Award
American National Standards Institute (ANSI)	Secretariat for ISO/IEC JTC 1/SC 37, Biometrics	47,000	47,000
Arizona Board of Regents, University of Arizona	Resilient Application as a Service (RAaaS)	75,000	150,000
Colorado State University	Attribute-Based Access Control for Secure IoT	199,905	199,905
Concordia University	Energy Harvesting Optimization for IoT-Health Devices	34,236	34,236
Florida Atlantic University Board of Trustees	Lattice Algorithms for Post-Quantum Cryptography	228,939	386,013
Florida Atlantic University Board of Trustees	A Platform for the Evaluation of Post-Quantum Primitives	127,864	194,980
George Mason University	Cloud Forensic Analysis using Volatile Memory, System calls and IDS Alerts	85,023	85,023
George Mason University	Building scalable and programmable machine learning based network anomaly detection in SDN	50,000	100,000
George Mason University	Lightweight Cryptography in Hardware and Embedded Systems	164,694	499,970
George Mason University	Post-Quantum Cryptography in Hardware and Embedded Systems	161,918	500,000
George Mason University	Hardening Cloud Infrastructures against Insider Attacks and Evolving Attack Surface	50,558	50,558
Loyola University Maryland	Workflow-based Systematic Testing of Information Systems Software	68,612	68,612
Michigan State University	Information Theoretic Measures of Data Representations	299,991	299,991
Michigan State University	Large-scale Fingerprint Synthesis	99,996	99,996



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National Academy of Sciences	Forum on Cyber Resilience	80,000	80,000
National Academy of Sciences	Support for the Core Research Activities and Studies of the Computer Science and Telecommunications Board	90,000	90,000
New America Foundation	Convening on Growing and Sustaining the Participation of Women in Cybersecurity	88,000	88,000
The University of Chicago	Accelerating access to large materials datasets: Building, deploying, and operating a Materials Data Facility	350,000	1,050,000
Theiss Research	Exploiting Alternate Computing Technologies	88,823	272,284
Trustees of Indiana University	Automated Big Data REST Service Creation in Support of Big Data Applications	49,868	49,868
Universidad de Chile	Beyond Transparency in a Random World: Applications of Publicly Verifiable Randomness to Private, Stateful, and Distributed Processes	155,712	251,424
University of Florida	EMLA: Metrics and Tools for Automated EM-Channel Leakage Analysis at Pre-Silicon	75,919	261,575
University of Maryland, Baltimore County	Differential Fairness for Artificial Intelligence and Machine Learning Systems: Unbiased Decisions with Biased Data	101,402	101,402
University of Maryland, Baltimore County	Attribute based Access Control for Internet of Things	119,907	119,907
University of Maryland, Baltimore County	Measuring and improving the robustness of deep learning algorithms in the presence of adversary	149,996	149,996
University of Texas at Arlington	SENTINEL: Security Interaction Testing for IoT Systems and Blockchains	196,910	585,000