

Principal Investigator	Institution	State	Brief Description of Instrumentation or Research	Awarding Office
Abate, Yohannes	University of Georgia	GA	Ultrafast Pump-Probe Nanoscopy	AFOSR
Abdelaziz, Sherif Lotfy	Virginia Polytechnic Institute & State University	VA	An Environmental Chamber for Realistic Sub-Freezing Arctic Engineering Techniques and Materials	ARO
Adnan, Ashfaq	University of Texas at Arlington	TX	Remote Mapping of Motion data and Real-time Damage Risk Analysis of Biologically Relevant Materials	ONR
Almasri, Mahmoud	University of Missouri, Columbia	MO	Advanced Mask Aligner for High Resolution Photolithography Patterning of Nano/Micro Devices and Material Study	ARO
Anasori, Babak	Indiana University	IN	In-situ High-Temperature X-ray Diffraction of Ultra-High Temperature Ceramics	ONR
Bardet, Philippe	George Washington University	DC	Enhancement of the Matched Index of Refraction Facility	ONR
Bartlett, Laura	Missouri University of Science and Technology	MO	In-situ 3D Digital Image Correlation to Enable Rapid Discovery and Advanced Manufacturing of Advanced High Strength Materials for Army Modernization	ARO
Baser, Tugce	University of Illinois, Urbana-Champaign	IL	A New Paradigm for Multiphysics Characterization of Permafrost Thaw: UAV-Based Subsurface Mapping using Geophysics	ARO
Baughman, Ray	University of Texas at Dallas	TX	Enabling the Fabrication and Characterization of Nanofibers and their Transformation into Inexpensive, High Performance Artificial Muscles and Mechanical Energy Harvesters	ONR
Baumann-Pickering, Simone	University of California, San Diego	CA	Unmanned Aerial Systems for Integrated Beaked Whale Demographic and Foraging Ecology Studies	ONR
Bernien, Hannes	University of Chicago	IL	IQCAAP- Individual Qubit Control for Atom Array Processors	AFOSR
Bowen, Kit	Johns Hopkins University	MD	Exploring the Role of Cluster Reactivity in Destroying Chemical Warfare Agents	ARO
Brady, David	University of Arizona	AZ	Coherent Array Telescope for Nanoradian Remote Sensing	AFOSR
Braiman, Yehuda	University of Central Florida	FL	High Power Coherent Breadboard Blue Diode Laser System for Underwater Applications	ONR
Brewer, Samuel	Colorado State University	CO	Broadband optical frequency metrology system for the development of high-accuracy optical atomic clocks	ONR
Burch, Kenneth	Boston College	MA	Nonlinear Quantum Spectroscopy System for Quantum Materials	AFOSR
Burke, Peter	University of California, Irvine	CA	Optical and RF time domain system for quantum spin lifetime and entanglement studies	AFOSR
Callahan, Damien	University of Oregon	OR	Intracellular, Environmental, and Biophysical Limitations to Human Performance	AFOSR
Chen, Yong	University of California, Los Angeles	CA	Advanced Education Platform for Multifunctional Intelligent Systems with Self-programming Functionality and High Efficiency	AFOSR
Chu, Rongming	Pennsylvania State University	PA	High-Voltage Characterization of Semiconductor Power Devices in Controlled Environments	ONR
Clarke, Amy	Colorado School of Mines	CO	Ultrahigh Temperature Heat-treatments of Refractory Multi-Principal Element Alloys for Defense Applications	ONR
Colosi, John	University of California, Santa Cruz	CA	Enabling simultaneous observations of ocean sound speed structure and advection	ONR
Cook, Justin	University of Central Florida	FL	High Power Fiber Laser Diagnostics System	AFOSR

Cordero, Zachary	Massachusetts Institute of Technology	MA	High-Pressure Rig for Assessing Particle Impact Ignition in Extreme Environments	AFOSR
Cushing, Scott	California Institute of Technology	CA	Ultrafast Ionic Hopping, Electron, and Phonon Correlations in Solid-State Electrolytes	AFOSR
Davidson, Paul	University of Texas at Arlington	TX	System to characterize in-situ thermal, mechanical, and chemical properties of materials	AFOSR
Deotare, Parag	University of Michigan	MI	Ultra-High-Resolution Microscopy for Characterizing Exciton Transport	AFOSR
Dimarino, Christina	Virginia Polytechnic Institute & State University	VA	3D X-Ray CT for Research on Power Electronics Components, Materials, and Packaging for Reliable Naval Power Electronic Power Distribution Systems	ONR
Eden, J. Gary	University of Illinois, Urbana-Champaign	IL	Novel Infrared, Visible, and Ultraviolet Lasers: Free-Free Transitions and Two Color Pumping	AFOSR
Frasier, Kaitlin	University of California, San Diego	CA	miniHARP: 4-Channel High-Frequency Acoustic Recorder with Real-Time Processing for Mobile and Profiling Platform Integration	ONR
Ganesh, Harish	University of Michigan	MI	A High-Speed Direct Detection X-ray Camera for the Examination of Cavitating Flows of Naval Interest	ONR
Georgakopoulos, Stavros	Florida International University	FL	Sub-THz and THz Network Analyzer Modules for Research on 6G Communications and Remote Sensing	AFOSR
Giometto, Marco	Columbia University	NY	Distributed Sensor Network for Land-Atmosphere Interaction Research	ARO
Goldberger, Joshua	Ohio State University	OH	Laser Diode Floating Zone Crystal Growth of Novel Materials with Goniopolarity and Other Extreme Functional Properties	AFOSR
Gordon, Mark	Iowa State University	IA	High Performance Computations on Ionic Liquids, Deep Eutectic Propellants and Propellant Degradation	AFOSR
Grossklaus, Kevin	Tufts University	MA	Spectral Reflectance System for Low Substrate Temperature Substrate Measurement during Molecular Beam Epitaxy	AFOSR
Gruev, Viktor	University of Illinois, Urbana-Champaign	IL	Advancing Geo-localization with High-Performance-Computing	ONR
Gu, Tingyi	University of Delaware	DE	Spatially resolved micro-spectrometer for hybrid integrated photonic materials	ARO
Hagen, Joshua	Ohio State University	OH	Digitization of Human Performance for Injury Surveillance and Enhanced Tactical Performance	ONR
Haghshenas, Meysam	University of Toledo	OH	High-Temperature Fluctuating-Stress Ultrasonic Fatigue Tester	AFOSR
Han, Grace	Brandeis University	MA	A Non-Ambient X-Ray Diffractometer for Studying Stimuli-Responsive Phase Transition of Organic Materials	AFOSR
Hodgkiss, William	University of California, San Diego	CA	Acoustic Array Data Acquisition Systems	ONR
Horch, Elliott	Southern Connecticut State University	CT	Imaging High-Altitude Satellites with the Quad-camera Wavefront-sensing Six-channel Speckle Interferometer	AFOSR
Hovakimyan, Naira	University of Illinois, Urbana-Champaign	IL	A Training-Testing-Benchmarking Environment for Learning-Enabled Control Frameworks and Algorithms	AFOSR
Hurley, Ryan	Johns Hopkins University	MD	An Extreme Pressure Triaxial Compression Apparatus for In-Situ Studies of Geomaterial Deformation Mechanisms	ARO
Jalan, Bharat	University of Minnesota	MN	Unique capability for synthesis and characterization of defect-managed oxide films and nanostructures	AFOSR

Jaramillo, Rafael	Massachusetts Institute of Technology	MA	New Semiconductors for Visible and Infrared Optoelectronics	AFOSR
Kamphaus, Robert	University of Washington	WA	Acoustic Transducer Fairing Upgrade to enable high resolution seabed mapping for R/V Thompson	ONR
Karan, Naba	University of Connecticut	CT	Thermal Characterization Test Instrument for Lithium-Ion Battery Safety Evaluation for Advanced Marine Technologies	ONR
Kemp, Mike	Wright State University	OH	High-Throughput Luminometry	AFOSR
Knight, Abigail	University of North Carolina at Chapel Hill	NC	High speed analysis and broad mass range detection through the application of MALDI-TOF-TOF mass spectrometry to macromolecular samples	AFOSR
Kou, Angela	University of Illinois, Urbana-Champaign	IL	Deposition system for the next generation of superconducting materials for quantum devices	AFOSR
Kramb, Victoria	University of Dayton	OH	X-ray Crystallographic Computed Tomography	AFOSR
Lai, Ying-Cheng	Arizona State University	AZ	High-Performance GPU Cluster Server	AFOSR
Lee, Bruce	Michigan Technological University	MI	Environmental Scanning Electron Microscope for Research in Additive Manufacturing, Materials Development, and Plastic Waste Recycling	ONR
Lehr, Jane	University of New Mexico	NM	Photon Processes in Channel Dynamics, Instabilities, and Nonequilibrium Surface Plasmas	AFOSR
Lennon, Jay	Indiana University at Bloomington	IN	Molecular-based methods for the mark-recapture of microorganisms	ARO
Li, Ying	University of Connecticut	CT	Molecular Design of High-Temperature Polymers	AFOSR
Lin, Ming	University of Maryland, College Park	MD	Enabling Human-Centric Autonomous Systems	ARO
Losego, Mark	Georgia Institute of Technology	GA	Photonic Sintering System to Investigate AI-Assisted Design of Additive Manufacturing Processes for Structural and Functional Inorganic Materials	ONR
Losert, Wolfgang	University of Maryland, College Park	MD	Imaging and stimulating neural systems with twisted light	AFOSR
Ma, Ou	University of Cincinnati	OH	A 3D Test System for Studying Multi-Agent Proximity Operations for On-Orbit Servicing Non-Cooperative Objects	AFOSR
Maccarone, Tom	Texas Tech University	TX	Tracking Sporadic E with the LWA Swarm	AFOSR
Maddalena, Luca	University of Texas at Arlington	TX	3MW Power Supply for Enhancing Performance and Reliability of the ONR-UTA Arc-Heated Plasma Wind Tunnel	ONR
Madhukar, Anupam	University of Southern California	CA	Mesatop Single Quantum Dot Arrays	AFOSR
Majumdar, Arka	University of Washington	WA	Testbed for extreme meta-optics at mid-wave infrared wavelengths	ONR
Makhnenko, Roman	University of Illinois, Urbana-Champaign	IL	Monitoring of Fracture Propagation in Shallow Subsurface	ARO
Maki, Kevin	University of Michigan	MI	Dual Wavemakers for Bi-Directional Irregular Seas and Ship Motions and Loads in Extreme Conditions	ONR
Malik, Jitendra	University of California, Berkeley	CA	Video Analysis for Perception and Action	ONR
Manukyan, Khachatur	University of Notre Dame	IN	High-throughput Screening System for Predictive Discovery of New Materials	ARO
Marandi, Alireza	California Institute of Technology	CA	Few-Cycle Frequency Combs in the Mid-Wave Infrared	AFOSR
Marder, Seth	University of Colorado, Boulder	CO	Characterization of Solar-Cell Material Stability - Compact Mass Spectrometer, Thermogravimetric Analysis, and Inert atmosphere Glove-Box	ONR

Matlack, Kathryn	University of Illinois, Urbana-Champaign	IL	Full field scanning wave field measurement system for advanced fluid-structure interaction characterization	AFOSR
Mazumdar, Yi	Georgia Institute of Technology	GA	Ultrafast Laser System for the Study of Combustion, High-Speed Flow, Plasma, and Detonation Processes	AFOSR
McCarron, Daniel	University of Connecticut	CT	Simulated optical forces to cool and trap CH radicals	AFOSR
Merrett, Craig	Clarkson University	NY	Nonlinear Viscoelastic-Viscoplastic Model Development for Strength Prediction of Bonded Joints	ONR
Michaels, Alan	Virginia Polytechnic Institute & State University	VA	Gallium-Nitride Dynamic On Resistance Measurements	ONR
Mongeau, Jean-michel	Pennsylvania State University	PA	Real-Time, Markerless 3-Dimensional Tracking and Perturbation System	AFOSR
Montclare, Jin	New York University	NY	Characterization of Protein Biomaterials	ARO
Moore, Michael	Woods Hole Oceanographic Institution	MA	Unmanned Aerial Systems for Research and Education on Marine Mammal Multiple Stressors, Comparative Microbiomes, Body Condition, Energetics, and Thermal Detection	ONR
Morosan, Emilia	William Marsh Rice University	TX	High sensitivity magnetometer to study magnetic textures and topology in quantum materials	AFOSR
Nam, Sungwoo	University of California, Irvine	CA	Bright and Thermally-stable Quantum Emission	AFOSR
Natelson, Douglas	William Marsh Rice University	TX	Optical cryostat with magnet and spectrometer to examine tunneling magnetoplasmonics and atomic-scale emitters	ONR
Ni, Kang-Kuen	Harvard University	MA	Equipment for Probing Ultracold Reaction Intermediates	AFOSR
Ortalan, Volkan	University of Connecticut	CT	Multimodal Ultrafast Electron Microscopy and Femtosecond Spectroscopy in Materials for Extreme Environments	AFOSR
Page, Zachariah	University of Texas at Austin	TX	Screening Wavelength Selectivity of Photochemical Transformations	ARO
Panerai, Francesco	University of Illinois, Urbana-Champaign	IL	Radiation Suite for Hypersonic Flows and Surfaces Detection	AFOSR
Paniagua Perez, Guillermo	Purdue University	IN	LDad Embedded Flow Control for Turbines and Modulated Enhancement of Heat Exchangers (LDadBFCmeHEX)	AFOSR
Park, Wounjhang	University of Colorado, Boulder	CO	Vacuum Deposition System for E-Beam Evaporation and RF Sputtering	AFOSR
Pathak, Deepak	Carnegie Mellon University	PA	Agile, Dynamic, and Dexterous Robot Learning in the Real World	ONR
Pathak, Parth	George Mason University	VA	Airborne and Vehicular Millimeter-wave Wireless Networking	ARO
Pei, ZJ	Texas A&M University	TX	3D bioprinting with layer-by-layer photo-crosslinking of simulated gut environment for brain-gut axis research	AFOSR
Plis, Elena	Georgia Institute of Technology	GA	The Digital Microscope with Elemental Analysis Attachment	AFOSR
Prasanna, V K	University of Southern California	CA	Enabling Low Latency AI/ML Workloads via Wafer Scale Acceleration	ARO
Pratt, Thomas	University of Notre Dame	IN	Configurable Infrastructure for Quick-Look Non-Cooperative Geolocation by a Single Receiver	ONR
Raman, Venkat	University of Michigan	MI	Graphics Processing Units based Computing System for Emerging Hypersonics Solvers	AFOSR
Reimers, Mark	Michigan State University	MI	High resolution imaging of cortical activity during cognitive function	AFOSR
Roblin, Patrick	Ohio State University	OH	Predictive Modeling of Nonlinear Trap Activity	AFOSR

Rovey, Joshua	University of Illinois, Urbana-Champaign	IL	Space Simulation Vacuum Facility for Enhanced Research and Education in Space Systems	AFOSR
Runyon, J	University of Arizona	AZ	High-Resolution Thermography System	AFOSR
Sarangapani, Jagannathan	Missouri University of Science and Technology	MO	A Heterogeneous Secure Testbed for Learning and Adaptation Research of Complex Networked Dynamical Systems	ONR
Scherer, Sebastian	Carnegie Mellon University	PA	GPU-Computer Cluster System to Enable Next Generation AI and Robotics Advances	ARO
Schuller, Ivan	University of California, San Diego	CA	Thermal Imaging Microscope for Characterization and Thermal Management of Novel Bioinspired Electronics	AFOSR
Seidman, David N	Northwestern University	IL	Cryogenic, vacuum, and inert-gas preparation environments for multi-scale studies of Naval materials systems	ONR
Selvamanickam, Venkat	University of Houston	TX	Pulsed Laser Deposition (PLD) Tool for Growth and Fabrication of Advanced Materials and Devices for Defense Applications	ONR
Send, Uwe	University of California, San Diego	CA	A freshwater flux mooring for the exchange control section south of Sri Lanka	ONR
Sengupta, Kaushik	Princeton University	NJ	AI-enabled Synthesis of Intelligent and Programmable Millimeter-Wave Chip-scale Arrays	ONR
Shamsi, Kaveh	University of Texas at Dallas	TX	Low-Cost Automated Integrated Circuit Analysis through AI-assisted Laser-Scanning-Microscopy	ONR
Shan, Xiaonan	University of Houston	TX	Multifunctional Plasmonic Imaging and Spectrometry System for in-operando Study of Battery Interfacial Reactions	ARO
Shi, Sufei	Rensselaer Polytechnic Institute	NY	Superconducting Magnet Enabled Low-temperature Magneto-optical Spectroscopy	AFOSR
Shkarayev, Sergey	University of Arizona	AZ	Wind-Gust System for the Subsonic Wind Tunnel	AFOSR
Shoshitaishvili, Yan	Arizona State University	AZ	Next Generation Machine Learning Platform for Advanced Vulnerability Analysis and Reverse Engineering	ARO
Shterengas, Leon	SUNY at Stony Brook University	NY	DLTS studies of antimonide materials	ARO
Sirohi, Jayant	University of Texas at Austin	TX	Aerodynamic Load Estimation Using Distributed Shape Sensing	AFOSR
Spasojevic, Predrag	Rutgers University	NJ	Deployable Battlefield of Highly Reconfigurable Wideband RF Transmitters	ONR
Stamper-Kurn, Dan	University of California, Berkeley	CA	A Rydberg Array Quantum Simulator with Rapid Cavity-enhanced Selective Readout	ARO
Stanley, Robert	Temple University	PA	Extremophilic Protein Purification	AFOSR
Su, Timothy	University of California, Riverside	CA	A Multidisciplinary Approach to Silicon Diamondoids for Molecular Electronics	AFOSR
Tafti, Fazel	Boston College	MA	Ferromagnetic Resonance and AC Susceptibility Instrumentation for Probing Magnetic Dynamics	AFOSR
Tang, Ming	University of Utah	UT	Quantifying the Optical Rotation of Light by Chiral Plasmonic Nanostructures	AFOSR
Tansel, Ibrahim	Florida International University	FL	Additively manufactured load and health sensing structures with embedded transducers	ARO
Tassiulas, Leandros	Yale University	CT	Agile, data based spectrum management for virtualization and slicing of wireless networks	ARO
Thompson, Gregory	University of Alabama, Tuscaloosa	AL	Synthesis of Bulk Micro- and Nano- Granular Materials Through Direct Current Sintering	ARO
Thompson, Jeffrey	Princeton University	NJ	Laser system for high-fidelity Ytterbium Rydberg gates	ARO
Tian, Zhiting	Cornell University	NY	Thermal Property and Ultrafast Dynamics Measurements of Ultrawide Bandgap Semiconductors	ONR

Todd, Robert	Woods Hole Oceanographic Institution	MA	Autonomous Underwater Gliders for Long-Duration, High-Resolution Surveys of the Upper Ocean	ONR
Tominaga, Masako	Woods Hole Oceanographic Institution	MA	Marine Gravimeters for AGOR Class Vessels	ONR
Tsynkov, Semyon	North Carolina State University	NC	Increased Deep Learning Computing Capacity for Radar Applications	AFOSR
Underwood, Thomas	University of Texas at Austin	TX	High-Speed, Single-Shot Spectroscopy for Air-Breathing Electric Propulsion and Plasma Diagnostics for High Power Microwaves	AFOSR / ONR
Vasu, Subith	University of Central Florida	FL	Ultra high-speed imaging system for hypersonics research and education training	AFOSR
Vlajic, Nicholas	Pennsylvania State University	PA	A Water Tunnel Test Section for Advanced Hydrodynamic Measurements	ONR
Vodopyanov, Konstantin	University of Central Florida	FL	Ultra-Low-Noise Broadband Mid-Infrared to Terahertz Dual Frequency Comb Spectrometer	AFOSR
Waks, Edo	University of Maryland, College Park	MD	Low Temperature Probe Station System for Quantum Interconnects	AFOSR
Wang, Guoan	University of South Carolina	SC	Enabling Next Adaptive Communication Technologies	ONR
Wang, Jian-Xun	University of Notre Dame	IN	Differentiable Neural Computing in Manufacturing Modeling of Hypersonic Materials	AFOSR
Webb, Kevin	Purdue University	IN	Mechanical Modes Excited by Optical Force Densities	AFOSR
Wetz, David	University of Texas at Arlington	TX	Study of Flywheel Energy Storage in Shipboard Power Systems Employing Multiple Small Generators, Power Electronic Power Distribution	ONR
Yang, Yuan	Columbia University	NY	Understanding Mechanical Properties of Battery Materials and Devices	AFOSR
Yankowitz, Matthew	University of Washington	WA	Developing a cryogenic apparatus enabling dynamic twist angle and pressure control of van der Waals quantum materials	ARO
Yao, Jun	University of Massachusetts, Amherst	MA	Integrated system for multi-channel bioelectronic recording	ARO
Yardim, Caglar	Ohio State University	OH	Study of Lower Atmospheric Ducts, Air-Sea Interaction, Turbulence, and Electromagnetic Propagation Using a Phase-Coherent Vertical Array and a Tethered-Drone	ONR
Young, Andrea	University of California, Santa Cruz	CA	Scaling topological qubits in van der Waals heterostructures	ONR
Yu, Hang	Virginia Polytechnic Institute & State University	VA	State-of-the-art additive friction stir deposition for advancing manufacturing research and cultivating a next-generation workforce	ONR
Zachariah, Michael	University of California, Riverside	CA	High-Speed In-Operando Hyperspectral Microscopy	ONR
Zelevinsky, Tanya	Columbia University	NY	An optical system for 3D trapping and photofragmentation of ultracold calcium monohydride molecules	AFOSR
Zuhlke, Craig	University of Nebraska, Lincoln	NE	Next Generation of High-power Ultrashort Pulse Laser for Transformative Surface Functionalization	ONR