

Principal Investigator	Institution	State	Brief Description of Instrumentation or Research it Supports	Awarding Office
Adams, Daniel	Colorado School of Mines	CO	Creation, Control, and Next Generation Metrologies for High-Intensity Tailored-Light Matter Interactions	AFOSR
Alu, Andrea	CUNY - Advanced Science Research Center	NY	Non-Reciprocal Quantum Metamaterials	AFOSR
Anderson, Scott	University of Utah	UT	Sub-Nano Cluster Catalysis of Fuel Endothermic Chemistry	AFOSR
Atkins, Ella	University of Michigan	MI	OSCAR: Outdoor Scientific Center for Autonomy and Robotics	ARO
Bank, Seth	University of Texas at Austin	TX	Agile and Repeatable Source for Molecular Beam Epitaxial Growth of Digital and Analog Alloys	ARO
Bathe, Mark	Massachusetts Institute of Technology	MA	Expansion of Combinatorial Deoxyribonucleic Acid Nanoparticle Libraries for Materials Research & Structural Biology	ONR
Bediako, Daniel	University of California, Berkeley	CA	High Spatial and Spectral Resolution Characterization of Atomically Thin Electronic Materials	ONR
Berfield, Thomas	University of Louisville	KY	Wire Electrical Discharge Machine (EDM) for Quantifying Residual Stress and Heat Treatment Effectiveness in Additive Manufactured	ONR
Bodenheimer, Robert	Vanderbilt University	TN	Virtually Co-located Augmented Reality Spaces For Visualization, Training, and Navigation	ONR
Bogard, David	University of Texas at Austin	TX	Transonic Wind Tunnel for Turbine Durability Studies	AFOSR
Borg, John	Marquette University	WI	Thermal Imaging Camera for Dynamic Events of Heterogeneous Materials	AFOSR
Bowman, Christopher	University of Colorado	CO	Evaluation of Polymer Induced Biostasis via Matrix-assisted Laser Desorption/Ionization Imaging Mass Spectrometry	ARO
Braun, Paul	University of Illinois	IL	Characterization Triad for Advanced Analysis of Charged Polymers, Capsules and Surfaces	ARO
Brodsky, Emily	University of California, Santa Cruz	CA	Naturalistic Granular Flows	ARO
Buehler, Markus	Massachusetts Institute of Technology	MA	A GPU Computational Facility for Machine Learning and Artificial Intelligence Based Design of Multifunctional Materials	ONR
Burch, Kenneth	Boston College	MA	Multidimensional Probe of Next Generation Heterostructures	AFOSR
Burke, Peter	University of California, Irvine	CA	Real Time Imaging System to Study Vital Sub-Cellular Organelles	ARO
Cahill, David	University of Illinois	IL	Gigahertz Frequency Optical Pump-Probe (GFOPP) Metrology Tool for High Sensitivity Measurements of Acoustic Dissipation and Elastic Constants	ARO
Caldwell, Joshua	Vanderbilt University	TN	Ultrafast Pump-probe Nanoscale Spatial and Spectral Characterization of Polaritonic, Semiconductor and Phase-change Media	ONR
Capasso, Federico	Harvard University	MA	Development and Characterization of New High-Performance Submillimeter Wave Lasers	ARO
Chandrasekhar, Venkat	Northwestern University	IL	Helium Reliquefiers for Investigation of Novel Two-Dimensional Magnetolectric Devices	ARO
Chattopadhyay, Aditi	Arizona State University	AZ	Nanoscale Investigation of Material Properties and Damage Precursor in Heterogeneous Material Systems	ONR
Chen, Ray	University of Texas at Austin	TX	Fully Automated Optical Alignment System for Bio- and Chemical Sensing	AFOSR
Chen, Yu	Binghamton University	NY	Environmental Resilient 5G Millimeter Wave Imaging Technology Based Surveillance System	AFOSR
Chowdhury, Srabanti	Leland Stanford Junior University	CA	Metal Organic Chemical Vapor Deposition of Group III - Nitrides at High Temperature and High Growth Rate	ONR
Christenson, Richard	University of Connecticut	CT	Real-Time Hybrid Substructuring of Advanced Marine Technologies	ONR
Clemmons, James	University of New Hampshire, Durham	NH	Research on the Response of the Thermosphere-Ionosphere System	AFOSR
Cooke, Nancy	Arizona State University	AZ	Distributed Human, Artificial Intelligence and Robot Teaming	ONR
Cortes, Jorge	University of California, San Diego	CA	Enabling Closed-Loop Learning on Resource-Constrained Robot Teams	AFOSR
Coutier-Delgosha, Olivier	Virginia Polytechnic Institute & State University	VA	High Frequency Imaging System for the Analysis of Cavitation Bubble Collapse	ONR
Craig, Stuart	University of Arizona	AZ	Hypersonic Boundary-Layer Pressure Measurements	AFOSR
Curarolo, Stefano	Duke University	NC	Development of Cloud-Oriented Materials Discovery Services (AFLOW-Cloud)	ONR
Daly, Kevin	West Virginia University	WV	Two-Photon Imaging	AFOSR
Davis, Bradley	Virginia Polytechnic Institute & State University	VA	Applied Electromagnetics Testbed	ONR
de Leon, Nathalie	Princeton University	NJ	Cryogenic Magneto-Optical Spectrometer for New Quantum Defects	AFOSR
DeMarco, Brian	University of Illinois	IL	Producing and Manipulating Ultracold Ground State Sodium-Rubidium Molecules	AFOSR
Dempsey, Jillian	University of North Carolina at Chapel Hill	NC	Examination of Charge Carrier Dynamics in Defect-Controlled Semiconductor Nanocrystals	AFOSR
Deravi, Leila	Northeastern University	MA	Flexible Optical Displays Inspired by Cephalopods	ONR
Djordjevic, Ivan	University of Arizona	AZ	Ultra High-Speed Quantum Communication	ARO
Downey, Austin	University of South Carolina	SC	Real-Time Edge Computing in Structures Experiencing Shock	AFOSR
Dragnea, Bogdan	Indiana University at Bloomington	IN	Correlation Interferometry and Time-resolved Spectroscopy to Elucidate the Origins of Radiation Brightening in Viromimetic Particles	ARO
Driggers, Ronald	University of Central Florida	FL	Hyperspectral Measurements for Targeting, Intelligence, Surveillance, Reconnaissance, Threat Warning, and Materials Research	AFOSR
El Zaklit, Josette	University of Nevada, Reno	NV	Investigating the Effects of Nanosecond-duration Electric Pulses on Excitable Cells	AFOSR
Fajardo-Hansford, Claudia	Western Michigan University	MI	Plasma-Assisted Combustion Diagnostics	AFOSR
Fasel, Hermann	University of Arizona	AZ	High-Fidelity Direct Numerical Simulations of Laminar-Turbulent Transition	AFOSR
Finlayson-Pitts, Barbara	University of California, Irvine	CA	Molecular Level Understanding of Degradation of Insensitive Munitions on Soil Proxies as the Basis for Developing Chemical Footprints	ARO
Fourkas, John	University of Maryland	MD	Rapid Fabrication of Nanotographic Surfaces for Biophysical Research	AFOSR
Franck, Christian	University of Wisconsin	WI	Development of a Three-Dimensional Light Field-based Tomographic Reconstruction Technique	ONR
Freedman, Marjorie	University of Southern California	CA	Learning Best Practices for Building Automatic Transcription and Translation Systems	ARO
Friqgui, Hichem	University of Louisville	KY	Deep Learning Platform for High Performance Machine Learning for Automatic Target Detection and Recognition	ARO
Fu, Jinglin	Rutgers University	NJ	Nanoparticle Tracking Analysis for Characterizing the Structural Dynamics of Biochemical Nanosystems	ARO
Fu, Yao	University of Cincinnati	OH	Advancing Fundamental Understanding of Passive Film Formation and Stability	ONR
Fuchs, Stephen	Tufts University	MA	Live Imaging of Dynamic Protein Behavior in Cells	ARO
Garner, Allen	Purdue University	IN	Flexible Pulsed Power Generator for High Power Microwave Applications	ONR
Gassman, Natalie	University of South Alabama	AL	Multi-Well Extracellular Flux Analyzer for Mitochondrial Stress Arrays	ARO
Glezer, Ari	Georgia Institute of Technology	GA	Diagnostics of Adaptive Aero-Structures Controlled by Fluid-Structure Interactions	AFOSR
Glumac, Nick	University of Illinois	IL	Flash X-Ray System	ONR
Gomez, Enrique	Pennsylvania State University	PA	Electrical Characterization of Polymeric Materials in Controlled Environments for Solar Cells	ONR

Graber, Hans	University of Miami	FL	Electromagnetic Wave Propagation and Environmental Observations	ONR
Greiner, Markus	Harvard University	MA	Programmable Optical Lattice for Fermi-Hubbard Quantum Simulations	ARO
Groeber, Michael	Ohio State University	OH	Openly-Controlled and Monitored, Multibeam Laser Additive Manufacturing System	ONR
Hagen, Joshua	West Virginia University	WV	Advancing and Scaling Human Performance Optimization Through Technologies, Tools, and Transition	ONR
Han, Daoru	University of Missouri, Rolla	MO	Thermal-Cycling, Plasma, Optical Diagnostic Systems	AFOSR
Han, Jianing	University of South Alabama	AL	Repulsive Dipole-Quadrupole and Quadrupole-Quadrupole Interactions	AFOSR
Hanson, Ronald	Leland Stanford Junior University	CA	Study of High-Temperature Laminar Flames in Shock Tubes	ARO
Hassan, Umer	Rutgers University	NJ	MEDIUM: Monitoring and Engineering Decompression Illness during Undersea Missions	ONR
Hatridge, Michael	University of Pittsburgh	PA	Cryogenic, Quantum-Limited Measurement and Feedback	ARO
Headley, William	Virginia Polytechnic Institute & State University	VA	Radio Frequency Machine Learning	ARO
Heiman, Donald	Northeastern University	MA	Magnetometry on Topological Materials and Quantum Devices	AFOSR
Heister, Stephen	Purdue University	IN	High-Speed Imaging for Rotating Detonation Combustion and Nozzle Expansion Processes	AFOSR
Hu, Travis Shihao	California State University - Los Angeles	CA	Understanding the Interplays of Mechanical and Chemical Interactions at the Molecular Interfaces of Multifunctional Bio-/Nano- Materials	ARO
Irvine, William	University of Chicago	IL	Three-Dimensional Imaging System for Turbulent Dynamics	ARO
Jajodia, Sushil	George Mason University	VA	Automated Document Generation Using Large-Scale Computational Methods	ONR
Jayne, Steven	Woods Hole Oceanographic Institution	MA	Observation of Air-sea Interaction in Hurricanes	ONR
Jorns, Benjamin	University of Michigan	MI	Non-Invasively Measuring Electron Properties in Low Temperature, Low Density Plasmas	AFOSR
Kalidindi, Surya	Georgia Institute of Technology	GA	Rapid Screening of Metal Alloys for Ductility	AFOSR
Karim, Ayman	Virginia Polytechnic Institute & State University	VA	Detailed Characterization of Next-Generation CWA Catalysts	ARO
Kesari, Haneesh	Brown University	RI	Creation of Artificially Intelligent Active Protective Materials	ONR
Khan, Asif	University of South Carolina	SC	Electron-beam Sub-micron Lithography System	ARO
Khazaei, Javad	Pennsylvania State University	PA	Distributed Control of Distributed Energy Resources (DERs) and Cyber Attack Modeling Testbed	ONR
Kiamilev, Fouad	University of Delaware	DE	Enhancement of Scene Projector Evaluation And Research (SPEAR)	AFOSR
Krogstad, Daniel	University of Illinois	IL	Development of Three-Dimensional Printing Inks, Coatings and Hydrogels	AFOSR
Lai, Keji	University of Texas at Austin	TX	Helium-Efficient Cryogenic Microwave Impedance Microscopy for Research on Topological Quantum States	ARO
Lamuta, Caterina	University of Iowa	IA	Research on Self-Morphing Smart Skins for Hydrodynamic Drag Control	ONR
Le, Hanh-Phuc	University of Colorado	CO	Efficient, Compact High-Voltage Power Delivery and Management for Soft Robots	ONR
Li, Guifang	University of Central Florida	FL	Turbulence-Resistant Free-Space Optical Communication and Atmospheric Laser Science	ARO
Li, Mo	University of Washington	WA	Ultrafast Time-Solved Infrared Spectroscopic Investigation of Phase-Change Materials for Optoelectronics	ONR
Liao, Bolin	University of California, Santa Barbara	CA	Probing Nonequilibrium Phonon-Magnon Coupling in Emerging Functional Materials	ARO
Little, Jesse	University of Arizona	AZ	High Speed Imaging for Aerodynamic and Structural Measurements in High Speed Flows	AFOSR
Lo, Yuhwa	University of California, San Diego	CA	Broad Spectrum Characterization of Cycling Excitation Process (CEP) Detectors	ONR
Loh, Kenneth	University of California, San Diego	CA	Warfighter Digital Twin for Prehabilitation: Integration of Full-Field Motion Capture with Emerging Wearable	ONR
Luskin, Mitchell	University of Minnesota	MN	Accelerated Search for Gate-Tunable High Critical Temperature Superconductivity in Twisted Trilayer Graphene	ARO
Lyons, Anthony	University of New Hampshire, Durham	NH	Combined Active and Passive Acoustic Sensing System	ONR
Ma, Lin	University of Virginia	VA	High Speed Laser and Camera for In Situ Four-Dimensional Visualization	ARO
Marelli, Benedetto	Massachusetts Institute of Technology	MA	In Situ Investigation of Nanoscale Dynamic Processes in Templated Crystallization of Structural Biopolymers	ONR
Marojevic, Vuk	Mississippi State University	MS	Software-Defined 5G Security Testbed	ONR
Martin, Holly	Youngstown State University	OH	Evaluating Surface Roughness and Dimensional Accuracies of Three-Dimensional Printed Structures	ARO
McHenry, Matthew	University of California, Irvine	CA	Hydrodynamic Sensing in Schooling Fish	ONR
McNeese, Andrew	University of Texas at Austin	TX	Rupture-Induced Underwater Sound Source for Use in Underwater Acoustics Experiments	ONR
Mellinger, David	Oregon State University	OR	Acoustically-equipped Gliders for Marine Mammal Oceanography Research	ONR
Metaxas, Dimitri	Rutgers University	NJ	Research for Generalizable, Explainable and Robust Machine Learning	ARO
Metcalf, David	University of Central Florida	FL	Blockchain and Quantum for Cybersecurity Simulation	ARO
Mirkovic, Jelena	University of Southern California	CA	REDSTAR - RE-engineering Deterlab for Scalability robustness And Reliability	ARO
Mishra, Umesh	University of California, Santa Barbara	CA	Noise Characterization and Modeling of Semiconductor Devices	ONR
Moodera, Jagadeesh	Massachusetts Institute of Technology	MA	Investigation of Interface Exchange Coupling Between Two Quantum Systems	ARO
Moon, Richard	Duke University	NC	Ultrasound and Improved Data Transmission System for a Hyperbaric Chamber	ONR
Mukerjee, Sanjeev	Northeastern University	MA	Unveiling Localized-Plasmon Promoted Direct-Charge Transfers across Nano-electrochemical Interfaces	ARO
Neary, Michelle	CUNY, Hunter College	NY	Dual Source Single Crystal X-ray Diffractometer for the Characterization of Small Molecules and Materials	AFOSR
Ng, Wing Fai	Virginia Polytechnic Institute & State University	VA	A Turbohaft Engine Test Stand for Particle Ingestion Research	ONR
Okamura, Allison	Leland Stanford Junior University	CA	Three-Dimensional Real-Time Global Proprioceptive Curvature Sensing for Soft Growing Robots	AFOSR
Oliver, William	Massachusetts Institute of Technology	MA	High-Fidelity Superconducting Circuit Fabrication	ONR
Ortalan, Volkan	University of Connecticut	CT	Custom Design In Situ TEM Holder for the Development of a Multimodal Ultrafast Electron Microscope	ONR
Panerai, Francesco	University of Illinois	IL	Plasmatron Wind Tunnel for Hypersonic Materials Research	AFOSR
Parsons, David	University of Oklahoma	OK	A Dropsonde System for Arctic Research	ONR
Parziale, Nicholas	Stevens Institute of Technology	NJ	Time-Resolved, Non-Intrusive Measurements in Unsteady Hypersonic Flows	ONR
Pham, Anh-Vu	University of California, Davis	CA	Ground Penetration Radar and Sensing from RF to Millimeter-Wave Frequencies	ONR
Pollock, Joshua	Kent State University	OH	Teamwork and Decision-Making Under Threat: Implementing an Immersive Virtual Reality Environment	ARO
Prucnal, Paul	Princeton University	NJ	High Speed Optical Signal Processing Using Photonic Reservoir Computer, All Optical Nonlinear Threshold and Optical Interference	ONR
Ramachandran, Siddharth	Boston University	MA	Intermodal Nonlinear Optics	ONR
Regal, Cindy	University of Colorado	CO	Low-Vibration Optical-Access Dilution Refrigerator for Quantum Sciences with Micromechanical Resonators	AFOSR

Richardson, Martin	University of Central Florida	FL	Multi-Kilowatt Ytterbium Fiber Laser Enablement System (MYLES)	AFOSR
Roy, Samit	University of Alabama	AL	Experimental-Computational Study of Length-Scale Based Toughness Enhancement	AFOSR
Sandholm, Tuomas	Carnegie Mellon University	PA	High Performance Central Processing Unit-Graphics Processing Unit Cluster for Computational Game Theory	ARO
Sastry, S	University of California, Berkeley	CA	Simulation of Search-and-Rescue Tasks in Complex Urban Terrain	ONR
Schuster, David	University of Chicago	IL	Baseband Control over Superconducting Qubits	ARO
Scovazzi, Guglielmo	Duke University	NC	Numerical Parallel Scalability of the Shifted Boundary Method	ARO
Sewell, Tommy	University of Missouri-Columbia	MO	Integrating Multiscale Modeling and Experiments to Develop a Meso-Informed Predictive Capability	AFOSR
Shcherbina, Andrey	University of Washington	WA	Next Generation Acoustic Doppler Current Profilers for REMUS Unmanned Underwater Vehicles	ONR
Sherwood, Matt	Wright State University	OH	Neuroimaging and Neuro-Evaluation of Cognitive Technologies	AFOSR
Shi, Sufei	Rensselaer Polytechnic Institute	NY	Low Temperature Optical Spectroscopy of van der Waals Heterostructures	AFOSR
Shontz, Suzanne	University of Kansas	KS	Graphics Processing Unit (GPU) Infrastructure for Massively Parallel Computing Research	ARO
Shor, Alexander	University of Hawaii	HI	R/V Kilo Moana Heave Compensated CTD	ONR
Shrivastava, Anshumali	William Marsh Rice University	TX	SubLIME (Sub-Linear Machine Learning Environment)	ONR
Shterengas, Leon	SUNY at Stony Brook University	NY	Epitaxial Regrowth of Antimonide Photonics Materials	ARO
Sitar, Zlatko	North Carolina State University	NC	Next Generation Optoelectronic Devices	ARO
Slinker, Jason	University of Texas at Dallas	TX	High Precision Electrical Characterization of Bioinspired Nanowire Devices	ONR
Socketingam, Subramani	University of South Carolina	SC	Multiscale Three-Dimensional Printing System for Fabrication of Next Generation Multiscale Architected Armor Materials	ARO
Son, Steven	Purdue University	IN	Laue Backscatter X-ray Diffractometer for Crystal Orientation Diagnostics	AFOSR
Song, Ickhyun	Oklahoma State University	OK	Pulsed-Laser-Based Radiation Effects Characterization for Millimeter-Wave/Terahertz Materials and Devices	AFOSR
Sonkusale, Sameer	Tufts University	MA	Direct Laser Writing of Electrospun Textiles for Flexible Bioelectronics	ONR
Speck, Jim	University of California, Santa Barbara	CA	Molecular Beam Epitaxy System for Gallium Oxide	AFOSR
Stechmann, Samuel	University of Wisconsin	WI	High-Performance Computing Cluster for Modeling Cloudy Atmosphere--Ocean Dynamics and Sea Ice	ONR
Suits, Arthur	University of Missouri-Columbia	MO	Controlled Collisions of Vibrationally Excited Polyatomic Molecules	ARO
Sun, Waiching	Columbia University	NY	Tensor Processing Unit Enhanced Deep Reinforcement Learning Approach for Automated Generations of Interpretable Models for Energetic Materials Across Length Scales	AFOSR
Sycara, Katia	Carnegie Mellon University	PA	Scalable and Resilient Coordination of Multi-Robot Teams	AFOSR
Talpin, Dmitri	University of Chicago	IL	Multimodal Platform for Integration of Functional Nanocomponents	AFOSR
Tawfik, Sameh	University of Illinois	IL	Advanced Additive Manufacturing System for Multifunctional Composites based on Frontal Ring-Opening Metathesis Polymerization (AM-FROMP)	AFOSR
Tehraniipoor, Mark	University of Florida	FL	Ultra Backside Thinning of Integrated Circuits for Physical Assurance and Inspection	AFOSR
Therien, Michael	Duke University	NC	Design, Characterization, and Dynamical Response of Bespoke Detection Materials for the Short Wavelength Infrared Spectral Regime	AFOSR
Thomson, James	University of Washington	WA	MicroSWIFTs for Air-Deployments and Expendable Wave Observing	ONR
Thynell, Stefan	Pennsylvania State University	PA	Characterization of Condensed-phase Decomposition Behaviors of Energetic Materials	ARO
Ting, Antonio	University of Maryland	MD	Generating Directional Ultra-Broadband Infrared Radiation in the Atmospheric Window	ONR
Usselman, Robert	Florida Institute of Technology	FL	Probing Real-time Spin Dynamics in Reactive Oxygen Species Biology	AFOSR
Van Newkirk, Amy	Pennsylvania State University	PA	Supercontinuum Source and Spectrum Analyzer for Mid-Wave Infrared Fiber Analysis	AFOSR
Vasudevan, Vijay	University of Cincinnati	OH	Analytical High-Resolution Scanning/Transmission Electron Microscope for Multidisciplinary Research	AFOSR
Wadley, Haydn	University of Virginia	VA	Vapor Phase Processing of Refractory Metals	ONR
Wang, Alan	Oregon State University	OR	Atto-Joule/Bit High-Speed Optoelectronic Characterization	AFOSR
Wang, Hai	Leland Stanford Junior University	CA	Advanced Diagnostics for Detonation Waves in Small Tubes and Nano Carbon Formation at High Pressures	AFOSR
Wang, Haiyan	Purdue University	IN	In Situ Study of Ceramic Sintering Mechanism and Mechanical Properties	ONR
Warzoha, Ronald	US Naval Academy	MD	Exploring the Nanoscale Physics of Energy Carrier Transport in Optical Materials	ONR
Williams, Kevin	University of Washington	WA	Acoustic Calibration Suite	ONR
Willner, Alan	University of Southern California	CA	Signal Source Analyzer for Frequency Comb, Orbital Angular Momentum Applications, and Highly Nonlinear Materials	AFOSR
Wolf, Marilyn	Georgia Institute of Technology	GA	Multiband Imaging Network	ONR
Yeom, Taiho	University of Mississippi	MS	Two-Dimensional Particle Image Velocimetry for Flow Field and Turbulence Characterizations	AFOSR
Yu, Shuiqing	University of Arkansas	AR	Multi-Functional Cold-Wall Ultra-High-Vacuum Chemical-Vapor Deposition System for Advanced Silicon-Germanium-Tin Development	AFOSR
Yu, Zhibin	Florida State University	FL	Integrated Vacuum Evaporation System to Support Multifunctional Material Research	AFOSR
Zachariah, Michael	University of California, Riverside	CA	High Speed Infrared Microscopic Imaging of the Thermal Field in Energetic Material Propagation	AFOSR
Zakhor, Avideh	University of California, Berkeley	CA	Machine Learning Algorithms and Architectures for Object Detection	AFOSR
Zelevinsky, Tanya	Columbia University	NY	Frequency Metrology System for the Molecular Lattice Clock	ONR
Zhang, Yong-Hang	Arizona State University	AZ	Mid-Wave Infrared and Long-Wave Infrared Time-Resolved Photoluminescence System	ARO
Zhen, Bo	University of Pennsylvania	PA	Ultrafast Laser System for Research on Non-Hermitian Topological Photonics	AFOSR
Zuhke, Craig	University of Nebraska-Lincoln	NE	Studying the Role of Laser-Induced Plasmas in Ultrafast Light-Matter Interactions	ONR