

The Department of Defense (DoD) announced that 98 university researchers at 71 institutions have been selected to receive instrumentation awards to enhance their research and education programs. The awards totaling \$50.1 million will be made under the FY 2024 DoD Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI) Program.

FY 2024 DoD HBCU/MI Research and Education Program

	Institution	Principal Investigator	Proposal Title	City	ST	Service	Minority Designation	USD(R&E) Priority Research Area
1	Alabama A&M University	Budak, Satilmis	Acquisition of Thin Film Deposition System, Laser marker, Optical and Chemical Characterization Systems to be used in energy harvesting and energy storage to enhance the education of students in STEM	Normal	AL	ARO	HBCU	Renewable Energy Generation and Storage; Advance Materials
2	Alabama A&M University	Liu, Congxiao	Acquisition of VSM-Torque System for Nano-magnetism Research at Alabama A&M University	Normal	AL	AFOSR	HBCU	Microelectronics; Advanced Materials
3	Alabama A&M University	Yuan, Qunying	Acquisition of a Scanning Electronic Microscopy-Energy Dispersive Spectroscopy Electron Beam Lithography (SEM-EDS-EBL) System for Analysis of Biological Materials and Nanomaterials at AAMU	Normal	AL	ARO	HBCU	Advanced Materials; Biotechnology; Chemistry
4	Andrews University	Lyons, Peter	Instrumentation for purification and analysis of proteolytic enzymes	Berrien Springs	MI	ARO	MI/AANAPISI	Biotechnology; Chemistry
5	Arizona State University	Zhang, Yanchao	AI-FutureG: An AI-Powered FutureG Wireless System for Information Assurance Research and Education	Tempe	AZ	ARO	MI/HSI	Future Generation Wireless Technology; Artificial Intelligence and Machine Learning
6	Bowie State University	Choe, Hyeokmin	Multipurpose high-resolution x-ray diffraction facility: Structural dynamics of energy harvesting materials under external perturbations	Bowie	MD	ARO	HBCU	Advanced Materials
7	Bowie State University	Josyula, Darsana	Bowie State University Autonomous Technologies Lab (BSU@Lab) Robotics Infrastructure and Systems Enhancement	Bowie	MD	ARO	HBCU	Autonomy
8	California Polytechnic State University	Ahlgren, William	Magnetic Materials Characterization Supporting Additive Manufacturing of Electric Machines	San Luis Obispo	CA	ONR	MI/AANAPISI	Advanced Materials
9	California State Polytechnic University, Pomona	Aly, Mohamed	Acquisition of Reconfigurable High-Performance Computing System for Multi-disciplinary research and training activities at CPP	Pomona	CA	ONR	MI/HSI	STEM Education
10	California State University - Channel Islands	Isaacs, Jason	Expanding Robotics Lab for Student Research with Focus on Mobile Object Manipulations and Human-Robot Interaction at CSUCI	Camarillo	CA	ONR	MI/HSI	Human-Machine Interfaces
11	California State University - Long Beach	Liu, Tairan	Acquisition of a Multi-Agent Experimental Platform for Multifaceted Research in Networked Systems and Promoting Workforce Diversity	Long Beach	CA	AFOSR	MI/HSI	Integrated Network System-of-Systems; Autonomy
12	California State University - Sacramento	Moghadam, Rohollah	Acquisition of Cyber Security Autonomous Heterogeneous Vehicles Laboratory for Research and Teaching in Applied Cyber-Physical Multi-Agent Control Systems and Outreach to High School Students\Teachers	Sacramento	CA	ONR	MI/HSI	Integrated Sensing and Cyber; Autonomy; Artificial Intelligence and Machine Learning
13	California State University - San Bernardino	Kim, Young Min	Acquiring a Cryogenic Piezo-Positioning Stage with Magneto-Optics for Quantum Information Research on Solid-State Defects	San Bernardino	CA	AFOSR	MI/HSI	Quantum Science, Advanced Materials
14	California State University-Fullerton	Mohapatra, Ankita	Acquisition of Instrumentation Cluster for Enhancing Multidisciplinary STEM Research and Curriculum in Biomedical Engineering	Fullerton	CA	ARO	MI/HSI	Biotechnology
15	California State University-Fullerton	Phelps, Patrick	Probing the micro-scale world of Earth and Life Materials with students of a primarily undergraduate, Hispanic-serving institution using a state-of-the-art Scanning Electron Microscope	Fullerton	CA	ARO	MI/HSI	Environmental Science; Advanced Materials
16	California State University-Northridge	Li, Bingbing	Nondestructive evaluation of additively manufactured functional metals with micro-scale precision	Northridge	CA	ONR	MI/HSI	Advanced Materials

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17	California State University-Northridge	Zirakian, Tadeh	Advancing Research Facilities on the Dynamics of Materials and Structures	Northridge	CA	ONR	MI/HSI	Advanced Materials
18	Claflin University	Pawar, Shrikant	FY24 DOD HBCU/MI Equipment/Instrumentation: Claflin University, Orangeburg, South Carolina	Orangeburg	SC	ARO	HBCU	STEM Education
19	Clark Atlanta University	Khan, Ishrat	Acquisition of an Instron 68FM-100 Floor Model Universal Tester for Polymer and Materials Science research and education at Clark Atlanta University	Atlanta	GA	ARO	HBCU	Advanced Materials
20	Clark Atlanta University	Li, Junrui	Acquisition of a Chemi-/Physi-sorption/Micropore Analytic system for Research, Education and Capacity Building in Materials Science at CAU	Atlanta	GA	ONR	HBCU	Advanced Materials
21	CUNY - Hunter College	Marianski, Mateusz	GPU-accelerated Server for Accelerating Molecular Dynamics-Assisted Discovery of Functional Biomaterials	New York	NY	AFOSR	MI/HSI	Biotechnology, Chemistry
22	CUNY - Queens College	Benseman, Timothy	Wide-range FTIR spectrometer for photonics research and education	Flushing	NY	ARO	MI/HSI	Microelectronics
23	CUNY - York College	Garcia-Marin, Virginia	Acquisition of a Transmission Electron Microscope for research and Education of Students on Mitochondria Bioenergetics.	Jamaica	NY	ARO	MI/HSI	Biotechnology; STEM Education
24	CUNY-City College of New York	Koder, Ronald	A facility at The City College of New York for protein production	New York	NY	AFOSR	MI/HSI	Biotechnology; STEM Education
25	CUNY-City College of New York	Sanz Pena, Inigo	A Collaborative Research Hub for Advancing Soldier Performance: Equipment for the Fabrication and Evaluation of Lightweight Wearable Assistive Robots with Embedded Sensing Capabilities.	New York	NY	ARO	MI/HSI	Advanced Materials; Advanced Manufacturing Robotics
26	Delaware State University	Xu, Yanan	Acquisition of a Ellipsometer Spectroscopy System for Research and Education Training of Students on Device Characterization	Dover	DE	AFOSR	HBCU	Advanced Materials; Microelectronics
27	Dillard University	Darwish, Abdalla	Instrumentation for the Investigation of Photonic Nanocomposite Films	New Orleans	LA	AFOSR	HBCU	Advance Materials; Integrated Sensors and Cyber
28	Dine College	Tabassum Hakim, Shazia	Equipment and Instrumentation to Support Biomedical Sciences Training and Research at Diné College, Navajo Nation, Arizona	Tsaile	AZ	AFOSR	TCU	Biotechnology; STEM Education
29	Dine College	Skaltsas, Demetra	Advancing National Security through Workforce Development, Diversity, and Next-Generation Sequencing on the Navajo Nation	Tsaile	AZ	AFOSR	TCU	Biotechnology; STEM Education
30	Elizabeth City State University	Adedeji, Adetayo	Robust and Versatile X-Ray Diffractometer for Research and Education	Elizabeth City	NC	AFOSR	HBCU	Advanced Materials
31	Elmhurst University	Brown, David	Elmhurst University Computational Outreach, Research, and Education (EU-CORE) VR/AR Makerspace	Elmhurst	IL	ARO	MI/HSI	STEM Education
32	Florida A&M University	Ali, Jamel	Acquisition of a Super Resolution Resonant Confocal Imaging System for Defense Applicable Extreme Biohybrid Materials Research and Education	Tallahassee	FL	AFOSR	HBCU	Advanced Materials

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33	Florida Atlantic University	Kim, Myeongsub	Acquisition of an X-ray Micro Computed Tomography (micro-CT) System for Multidisciplinary Research and Integrated Education	Boca Raton	FL	ONR	MI/HSI	Advanced Materials; Integrated Sensors and Cyber; Biotechnology
34	Florida Atlantic University	Merk, Vivian	X-ray Powder Diffraction: An indispensable tool for research and education in science and engineering	Boca Raton	FL	ONR	MI/HSI	Biotechnology; STEM Education
35	Florida Atlantic University	Pados, Dimitris	A Digital Twin Platform for Computational T&E of Connected AI Autonomy	Boca Raton	FL	AFOSR	MI/HSI	Integrated Sensing and Cyber; Autonomy; Artificial Intelligence and Machine Learning
36	Florida International University	Chuvashova, Irina	X-ray diffraction system for materials characterization at extreme environments	Miami	FL	ONR	MI/HSI	Advanced Materials; STEM Education
37	Florida International University	Georgakopoulos, Stavros	Characterization Testbed for Research on mmWave Communication and Remote Sensing Systems	Miami	FL	AFOSR	MI/HSI	Future Generation Wireless Technology
38	Hampton University	Pradhan, Aswini	DoD: Acquisition of a Transmission Electron Microscope for Advanced Renewable Energy and Quantum Materials Research, Education and Training	Hampton	VA	ONR	HBCU	Advanced Materials
39	Howard University	Lashhab, Fadel	Enhancing Autonomous Vehicles Research and STEM Education Through Studio and Control Equipment Acquisition	Washington	DC	ARO	HBCU	Autonomy
40	Howard University	Misra, Prabhakar	Acquisition of a Fourier Transform-Confocal Raman Microscope for Investigating Quantum Dots and Nanomaterials for Research and Education at Howard University	Washington	DC	ARO	HBCU	Quantum Science
41	Howard University	Owolabi, Gbadebo	Acquisition of Ultra-High-Speed Deformation and Strain Measurement System	Washington	DC	ARO	HBCU	Advanced Materials
42	Jackson State University	Islam, Muhammad	Acquisition of an Advanced Potentiostat for Research and Training in the Jackson State University	Jackson	MS	ARO	HBCU	Materials
43	Jackson State University	Pradhan, Nihar	Optical Laser Lithography Fabrication System and Local Multiferroelectric Properties of Van der Waals Materials and Their Heterostructure	Jackson	MS	ARO	HBCU	Quantum Science
44	Montclair State University	Sarkar, Amrita	Acquisition of A Multi-Detector Equipped-Gel Permeation Chromatography for Polymer Research & STEM Education at Montclair State University, New Jersey.	Montclair	NJ	ARO	MI/HSI	Advanced Materials; Chemistry
45	Morgan State University	Cole, Clifton	RAN-IP: Resilient Autonomous Nation In-the-loop	Baltimore	MD	AFOSR	HBCU	Integrated Network System-of-Systems;
46	New Mexico Institute of Mining and Technology	Hargather, Chelsey	State-of-the-art Mixer and Micro-CT Scanner for Advanced Manufacturing and Energetic Materials Research	Socorro	NM	AFOSR	MI/HSI	Advanced Manufacturing; Advanced Materials
47	New Mexico State University	Garcia Carrillo, Luis Rodolfo	Advancing Intelligent Multi-Agent Networked Systems: The Robotics and Autonomy Research and Teaching Studio at New Mexico State University	Las Cruces	NM	ONR	MI/HSI	STEM Education
48	North Carolina A&T State University	Aravamudhan, Shyam	Acquisition of Plasma Enhanced Atomic Layer Deposition (PEALD) System for Advanced Materials Research and Education	Greensboro	NC	ONR	HBCU	Quantum Science
49	North Carolina A&T State University	He, Peng	Acquisition of Characterization and Measurement System (Correlative Raman-AFM Microscopy) for Development of Polymer/Polymerization-Based Bioanalytical Sensors	Greensboro	NC	ARO	HBCU	Integrated Sensing and Cyber; Advanced Materials

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50	Northeastern State University	Burba, Christopher	Development of an Optical Spectroscopy Lab for In situ Vibrational Micro-spectroscopy	Tahlequah	OK	ONR	MI/AIANSI	Renewable Energy Generation and Storage;
51	Northeastern State University	Iyer, Janaki	Advanced Microscopes to Strengthen Teaching and Research at Northeastern State University, Oklahoma	Tahlequah	OK	ARO	MI/AIANSI	STEM Education
52	Old Dominion University	Eisazadeh, Hamid	Enhancing Research and Education Through the Acquisition of a Selective Laser Melting System for Advanced 3D Metal Printing	Norfolk	VA	ARO	MI/AANAPISI	Advanced Manufacturing
53	Prairie View A&M University	Karna, Sunil	Acquisition of a Laser-based Floating Zone Furnace for single crystal growth and a real-time transmission or back-reflection Laue system for Material Science Education and Research at PVAMU	Prairie View	TX	ARO	HBCU	Advanced Materials, Quantum Science
54	Prairie View A&M University	Fernando, Harshica	Acquisition of a Scanning X-Ray Photoelectron Spectrometer (XPS) to Expand and Enhance Multidisciplinary Research in the Department of Chemistry and Physics at Prairie View A&M University (PVAMU)	Prairie View	TX	AFOSR	HBCU	Advanced Materials; Biotechnology; Chemistry
55	San Francisco State University	Jiang, Zhaoshuo	Developing new research and teaching capabilities in Understanding Dynamic Systems and Control Theory at SFSU	San Francisco	CA	AFOSR	MI/HSI	Multiple Research Areas; STEM Education
56	San Francisco State University	Quintero, David	Acquisition of Instrumental Treadmill, Markerless Motion Capture, and Human-Machine Equipment for a Human-Machine Performance Laboratory to Enhance Research in Engineering and Kinesiology at SFSU	San Francisco	CA	AFOSR	MI/HSI	Human- Machine Interfaces
57	San Jose State University	Madden, Elizabeth	Enhancing Research and Education in High Resolution Active Remote Sensing Technology and Landscape Modeling	San Jose	CA	ARO	MI/HSI	Earth Science; STEM Education
58	Shaw University	Vasquez-Kool, Jorge	Acquisition of Automated Instrumentation to Enhance Multidisciplinary Research, Education and Training Capabilities at Shaw University	Raleigh	NC	ONR	HBCU	Biotechnology; STEM Education
59	Southern University A&M College Baton Rouge, LA	Mensah, Patrick	Acquisition of a Multi-material Laser Powder Bed Fusion Equipment for Advanced Manufacturing Research and Education	Baton Rouge	LA	ONR	HBCU	Advanced Manufacturing
60	Southern University A&M College Baton Rouge, LA	Yang, Shizhong	Acquisition of a Raman Spectroscope for Extreme Environment Materials Characterization	Baton Rouge	LA	AFOSR	HBCU	Advanced Materials
61	Southern University New Orleans, LA	Tietzel, Illya	Equipment for a Center of Applied Life Sciences at the HBCU SUNO	New Orleans	LA	ARO	HBCU	Biotechnology; STEM Education
62	St. Mary's University	Torre, Damiano	Enhancing Autonomous Vehicles Cybersecurity Through Innovative Software Systems	San Antonio	TX	ONR	MI/HSI	Autonomy; Integrated Sensing and Cyber; Artificial Intelligence and Machine Learning
63	Tennessee State University	Keel, Leehyun	Intelligent Cyber-Physical Systems Lab for Assured and Secure Operations (ICPSLASO)	Nashville	TN	ARO	HBCU	Integrated Sensing and Cyber
64	Texas A&M International University	Hasan, Muhammad	Research and Teaching Enhancement in Cyber Physical Systems using Pseudo Smart City Studio	Laredo	TX	AFOSR	MI/HSI	Integrated Sensing and Cyber; Artificial Intelligence and Machine Learning
65	Texas A&M University-College Station	Munoz, Jose	Hexapods and digital signal processing units for inertial navigation with optomechanical accelerometers	College Station	TX	ONR	MI/HSI	Integrated Sensing and Cyber

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66	Texas A&M University-Kingsville	Kumar, Vinod	Acquisition of an Advanced Computing Testbed for HPC, AI/ML, M&S & Digital Twin Research and Education	Kingsville	TX	AFOSR	MI/HSI	Artificial Intelligence and Machine Learning
67	Texas A&M University-Kingsville	Yang, Xue	Acquisition of Computation Server and Experiment Equipment for Enhancing Nuclear Engineering Research and Education Program at Texas A&M University-Kingsville	Kingsville	TX	ONR	MI/HSI	Renewable Energy Generation and Storage; Nuclear Engineering
68	Texas State University	Haque, Ariful	Acquisition of a state-of-the-art photoluminescence spectrometer for research and education	San Marcos	TX	ARO	MI/HSI	Microelectronics, Advanced Materials
69	Texas Technical University	Chatzakis, Ioannis	Two-dimensional topological materials for tunable quantum states and topological antiferromagnetic systems for applications in quantum technology	Lubbock	TX	ONR	MI/HSI	Quantum Science; Advanced Materials
70	Tuskegee University	Jafarinejad, Shahryar	Acquisition of an Ion Chromatography (IC) System to Strengthen the Interdisciplinary Research and Training Capabilities at Tuskegee University	Tuskegee	AL	ARO	HBCU	STEM Education; Environmental Science
71	University of Arizona	Rastgoftar, Hossein	Acquisition of a Trustworthy Intelligent Multi-Domain Transportation Testbed for Research in a Contested Environment	Tucson	AZ	ONR	MI/HSI	Integrated Sensors and Cyber; Autonomy; STEM Education
72	University of California - Irvine	Hochbaum, Allon	Scanning Probe Microscopy for Advanced Material Structure and Property Characterization at UC Irvine	Irvine	CA	AFOSR	MI/HSI	Advanced Materials; Biotechnology; Chemistry
73	University of California - Merced	Kumar, Parveen	Acquisition of Mask Aligner/Nanoimprinter Lithography for Multi-disciplinary Research and Training	Merced	CA	ARO	MI/HSI	Microelectronics; Advanced Materials
74	University of California - Merced	Tang, Meng	Learning to See by Learning to Synthesize Images	Merced	CA	ONR	MI/HSI	STEM Education; Artificial Intelligence and Machine Learning
75	University of California - Santa Cruz	Schmidt, Holger	Dual-beam SEM/FIB instrument for research and STEM education in nanoscale science and engineering	Santa Cruz	CA	AFOSR	MI/HSI	Advanced Materials; Quantum Science; Microelectronics
76	University of California - Santa Cruz	Sadjadpour, Hamid	A Wireless Communication Testbed for the Design of Future Combat Systems	Santa Cruz	CA	ARO	MI/HSI	Future G; Integrated Network System of System
77	University of Central Florida	Ahmed, Kareem	Ultra-High-Speed Burst-Mode Laser for DoD Hypersonics and Space Detonation Research	Orlando	FL	ARO	MI/HSI	Hypersonics
78	University of Central Florida	Vasu Sumathi, Subith	Multi-species, mid-IR diagnostics at ultra-fast time scales to characterize propellants and energetic materials burning for hypersonics and ordnance systems	Orlando	FL	ONR	MI/HSI	Hypersonics
79	University of Hawaii-Manoa	Kim, Juhee	Acquisition of high performance liquid chromatography with tandem mass spectrometer (HPLC-MSMS) system for per- and polyfluoroalkyl substance (PFAS) research and education	Honolulu	HI	ARO	MI/AANAPISI	Environmental Science
80	University of Hawaii-Manoa	Ray, Tyler	An Additive Manufacturing System for Studies of Multiscale Functional Materials	Honolulu	HI	AFOSR	MI/AANAPISI	Advanced Manufacturing; STEM Education
81	University of Maryland-Baltimore County	Roy, Nirmalya	MAGNUS: Advancing AI, Robotics, and Networking Research through a Multi-Domain Testbed for Defense Innovation	Baltimore	MD	ARO	MI/AANAPISI	Artificial Intelligence and Machine Learning Autonomy
82	University of Massachusetts-Boston	Sheng, Bo	Developing a New Research and Teaching Laboratory for Networked AI at UMass Boston	Boston	MA	ONR	MI/AANAPISI	Artificial Intelligence and Machine Learning Autonomy

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83	University of Nevada - Las Vegas	Island, Joshua	Acquisition of a direct write photolithography system for quantum science research	Las Vegas	NV	ARO	MI/HSI	Quantum Science; Microelectronics
84	University of New Mexico Albuquerque	Jackson, Nathan	Reactive Co-Sputtering Tool for Deposition of Complex Multifunctional Ternary and Quaternary Thin films Materials	Albuquerque	NM	AFOSR	MI/HSI	Microelectronic; Advanced Materials
85	University of North Carolina - Greensboro	Rathnayake, Hemali	DOD HBCU/MI Instrumentation: Acquisition of a 3D Super-Resolution Live Cell Imaging Microscope for Interdisciplinary Graduate Research and Educational Training	Greensboro	NC	AFOSR	MI/AANAPISI	Biotechnology
86	University of North Carolina at Pembroke	Singletary, Steven	Enhancing and augmenting the additive manufacturing and material analysis capabilities at UNC Pembroke	Pembroke	NC	ARO	MI/AIANSI	Advanced Materials; Advanced Manufacturing
87	University of North Texas	Neu, Jens	Conductive-Probe-AFM combined with Terahertz Scattering Near-Field Microscope (c-AFM+THz-SNOM)	Denton	TX	ARO	MI/HSI	Advanced Materials
88	University of North Texas	Xiao, Yuzhe	Understanding infrared materials with optical ellipsometry	Denton	TX	AFOSR	MI/HSI	Advanced Materials; Physics
89	University of Puerto Rico at Rio Piedras	Tinoco, Arthur	6495 Triple Quadrupole LC/MS System for an Omics Center	San Juan	PR	ARO	MI/HSI	STEM Education
90	University of Puerto Rico-Medical Science Campus	Miller, Mark	Acquisition of a Laser Scanning Confocal Microscope at the University of Puerto Rico	San Juan	PR	ARO	MI/HSI	Biotechnology
91	University of Puerto Rico-Mayaguez	Rua, Armando	Acquisition of a physical properties measurement system to support research and training in Quantum Materials and Transformative Devices	Mayaguez	PR	ARO	MI/HSI	Quantum Science
92	University of Puerto Rico-Mayaguez	Suleiman, David	Acquisition of an NMR for the Study of Novel Multi-Ionic Polymers	Mayaguez	PR	ARO	MI/HSI	Advanced Materials; Chemistry
93	University of Texas at Austin	Strank, Shannon	Equipment to Support Research to Enhance Resilience and Cyber-physical Security of Military Microgrids	Austin	TX	ONR	MI/HSI	Renewable Energy Generation and Storage; Integrated Sensing and Cyber
94	University of Texas at El Paso	Velez-Reyes, Miguel	Establishment of the Robotics and Autonomous Systems Research and Teaching Laboratory	El Paso	TX	ARO	MI/HSI	Autonomy; STEM Education
95	University of Texas at San Antonio	Pineda, Daniel	Enabling Multidimensional Infrared Imaging of Quantitative Thermochemistry in High-Enthalpy Reacting Flows	San Antonio	TX	AFOSR	MI/HSI	Hypersonics
96	University of Texas at San Antonio	Renthal, Robert	Acquisition of an Orbitrap Exploris 480 LCMS for high sensitivity proteomics applications	San Antonio	TX	ARO	MI/HSI	Biotechnology; Chemistry
97	Virginia State University	Lee, Joon Suk	Heterogeneous computing environment for Generative AI and Industrial Cybersecurity	Petersburg	VA	ARO	HBCU	Artificial Intelligence and Machine Learning; Advanced Computing and Software
98	West Virginia State University	Nimmakayala, Padma	Plant phenotyping infrastructure for vegetable crop improvement	Institute	WV	ARO	HBCU	Biotechnology