

Academia FY2021

The University of Alabama in Huntsville (Huntsville, AL)

- information technology and related systems support for the Combat Capabilities Development Command Aviation & Missile Center, Huntsville, AL; W31P4Q-15-D-0062; 30 Jul 2021 via Army Contracting Command, Redstone Arsenal, AL

Carnegie Mellon University (Pittsburgh, PA)

- Next-Generation Non-Surgical Neurotechnology (N3); N65236-19-C-8017; 6 Nov 2020 via Naval Information Warfare Center Atlantic, Charleston, SC

The University of Central Florida Board of Trustees (Orlando, FL)

- research and development (R&D) efforts for the Embedded Training for Next Generation Combat Systems project; W912CG-21-C-0010; 27 Jul 2021 via Army Contracting Command, Aberdeen Proving Ground, MD

University of Dayton Research Institute (Dayton, OH; Wright-Patterson AFB, OH)

- advance state-of-the-art of propulsion, power, and thermal management technologies; contract number FA8650-21-D-2020; task order FA8650-21-F-2021; 26 Apr 2021 via AFRL Wright-Patterson AFB, OH
- Comprehensive Landing Gear Integrity Program; FA8203-21-D-0013; 5 May 2021 via Air Force Sustainment Center, Hill AFB, UT

Florida State University - Center for Advanced Power Systems (Tallahassee, FL)

- R&D associated with shipboard electrical systems → work in Tallahassee, FL (89%); Austin, TX (4%); Tuscaloosa, AL (3%); Columbia, SC (2%); Milwaukee, WI (2%); 11 Jun 2021 via NAVSEA, D.C. (N00024-21-C-4113)

George Mason University (Fairfax, VA)

- support the Uniformed Services University of the Health Sciences' (USU) Enlisted to Medical Degree Preparatory Program (EMDP2) → work in Manassas, VA; HU000121D0002; 7 Jun 2021 via Uniformed Services University of the Health Sciences, Bethesda, MD

Georgia Tech Applied Research Corporation (Atlanta, GA)

- continued engineering and R&D; 22 Feb 2021 via AFLCMC, Hanscom AFB, MA (FA8730-21-D-0001)
- radar-related R&D and systems engineering support; 23 Mar 2021 via Army Contracting Command, Aberdeen Proving Ground, MD (W56KGU-21-D-0001)
- support of Range Threat Systems Branch (including Advanced Radar Threat Systems, Joint Treat Emitter and Branch Modernization programs); entails threat radar systems, along with supporting tools and infrastructure to the Air Force combat training ranges → work at Hill AFB, UT, and/or at corporation's facility; FA8210-21-D-0008; 23 Jan 2021 (with about 20 other corporations) via AFLCMC, Hill AFB, UT
- essential analysis documentation, including work closely related to governmental functions in engineering, R&D, modeling and simulation, and test and evaluation; 4 Jun 2021 via AFLCMC, Wright-Patterson AFB (FA8684-21-D-2002)
- technical risk reduction work efforts associated with the Defense Avionics System Sustainment Update (DSU) program; 28 Jul 2021 via AFLCMC, Robins AFB, GA (FA8523-21-C-0001)
- develop a new type of high performance computer (HPC): "Real-time HPC," which "balances computational throughput with extreme low latency to create a largescale virtual radiofrequency test range" → work at contractor facilities in Atlanta, GA (50%); New York, NY (30%); Aurora, CO (20%); 11 Aug 2021 via NAVWAR Pacific, San Diego (N66001-20-C-4002)
- R&D and engineering related to sensors, weapons, and communication systems for ground and airborne-based missile defense → work in Atlanta, GA, and Huntsville, AL; 23 Sep 2021 via Missile Defense Agency (MDA) Redstone Arsenal (HQ0854-21-D-0002)
- research, analysis, integration, systems engineering, development, flyable and non-flyable technology demonstrators, prototypes, test and evaluation, and delivery of "cutting-edge weapon solutions" to DOD "to counter emerging threats affecting national security" → work at Eglin AFB, FL; 10 Sep 2021 via AFRL, Eglin AFB, FL (FA8651-21-D-0016)

Johns Hopkins University, Applied Physics Laboratory (Laurel, MD)

- additional engineering support services, systems engineering for complex systems, specialized R&D and other support functions at Los Angeles AFB; FA8819-18-D-0009; 17 Dec 2020 via Space & Missile Systems Center, Los Angeles AFB
- variety of technical areas associated with high-speed precision munitions; 19 Mar 2021 via Army Contracting Command, Newark, NJ (W15QKN-21-D-0018)
- R&D of new sensor technologies for AFRL; 13 Apr 2021 via AFRL Wright-Patterson AFB, OH (FA8650-21-D-1008)

- professional technical services: systems test and evaluation; information and technology research, development, and assessment; simulation, modeling, operations and analysis; mission-related R&D; task order FA8735-21-F-0003; 30 Apr 2021 via Air Force Nuclear Weapons Center, Hanscom AFB, MA for (FA8735-21-D-0003)
- systems engineering, operational analysis of component architectures across all aspects of the kill chain, technology concept exploration, and analysis and performance assessments across air, land, sea, space, and cyberspace¹ → work at Alexandria, VA; and Laurel, MD, for Office of the Secretary Defense; HQ0034-19-D-0006; 10 May 2021 via WHS, Arlington, VA
- research and engineering supporting long-term organizational performance improvement within the Military Health System (MHS); engage external stakeholders and supported military commands; advisory and assistance support on complex issues affecting strategic planning, resource allocation, and operational oversight of MHS; and exploratory research and investigations in topics of interest to MHS; HT001121D0002; 3 Jun 2021 via Defense Health Agency Professional Services Contracting Division, Falls Church, VA
- R&D to support the Ground Based Strategic Deterrent; 12 Jul 2021 via Air Force Nuclear Weapons Center, Hill AFB, UT (FA8204-21-D-0001)
- additional studies, concept development, systems engineering and technical assessments, modeling, simulation, and prototyping/experiments at Los Angeles AFB, CA; task order FA8819-20-F-1005; 27 Aug 2021 via Space Systems Command, Los Angeles AFB, CA
- Program Technical Direction Agents to support and improve the understanding of events in space, air, and surface, and protect U.S. space capabilities and assets → work Los Angeles AFB, CA; task order FA8819-18-D-0009; 30 Aug 2021 via Space Systems Command, Los Angeles AFB, CA

University of Maryland College Park, Office of Research Administration (College Park, MD)

- Mid Atlantic Crossroads (MAX) connectivity; supplies and services include connectivity, colocation and engineering services in support of the Uniformed Services University of the Health Sciences → work at Bethesda, MD; and San Antonio, TX; HU000121D0001; 5 May 2021 via Uniformed Services University of the Health Sciences, Bethesda

Mississippi State University (Mississippi State, MS)

- simulation-based reliability and safety virtual prototyping of autonomy-enabled ground systems; W56HZV-17-C-0095; 23 Oct 2020 via Army Contracting Command, Detroit Arsenal, MI
- research focusing on sensor analytics and remote sensing, geo-materials, steel and future technologies for force protection; 26 May 2021 via USACE Engineer Research and Development Center, Vicksburg, MS (W912HZ-21-C-0022)

The University of Missouri Kansas City (Kansas City, MO)

- Pulsed Tactical Effector for Regulated Attack (PTERA) program, which seeks to develop electronic effector and support technologies that “enable new Navy missions when placed aboard and/or in concert with Group 1 through 3 unmanned aerial vehicles”; 27 Aug 2021 via Office of Naval Research, Arlington, VA (N00014-21-C-1049)

Montana State University (Bozeman, MT)

- development of advanced composite material forms; W911W6-18-C-0050; 15 Apr 2021 via Army Contracting Command, Redstone Arsenal, AL

Pennsylvania State University, Applied Research Laboratory, Electro Optics Center (Freeport, PA)

- operation and management of Navy Manufacturing Technology (ManTech) Electronics Manufacturing Center, Freeport, PA: develop naval platform-related manufacturing technologies and transition the technology for implementation in electronics manufacturing and other industrial facilities; also manage, operate, sustain and enhance the center’s ability to function as an Office of Naval Research ManTech Center of Excellence; 13 Aug 2021 via Office of Naval Research, Arlington, VA (N00014-21-D-7003)

¹ Warfare areas: air and missile defense; air-to-air combat (manned and unmanned aircraft); countering unmanned vehicles; time-critical target defeat; anti-surface warfare (including small-boats and gun-boats), anti-submarine warfare, and mining; offensive strike; electromagnetic maneuver warfare; electronic attack; negating counter-space capabilities, i.e. command & control (C2) systems, direct satellite attack, hardening, and replenishment; command, control, computers, communications (C4); intelligence, surveillance, and reconnaissance (C4ISR); counter-integrated air defense systems (IADS); offensive and defensive cyber capabilities; and nuclear systems to include nuclear command, control & communications (NC3) systems.

Rice University (Houston, TX)

- DARPA Next-Generation Non-Surgical Neurotechnology program: develop a high-resolution neural interface that does not require surgery → work at corporate facilities in Houston (29%) and Waco (33%), TX; New York, NY (20%); New Haven, CT (15%); Durham, NC (3%); N66001-19-C-4020; 9 Nov 2020 via Naval Information Warfare Center Pacific, San Diego, CA (N66001-19-C-4020)

Texas A&M Engineering Experiment Station (College Station, TX)

- hypersonic systems and networked autonomous vehicles; 30 Sep 2021 via Army Contracting Command, Aberdeen Proving Ground, MD (W911NF-21-D-0008)

University of Texas at San Antonio (San Antonio, TX)

- Accram Software/Hardware System: how to viably accelerate and continuously deliver a pipeline of sound technical innovations and talent that advances the cyber-electronic warfare resilience of Air Force missions for emerging commercial technologies of fifth generation, Internet of Things, Industrial Internet of Things, and their applications; 29 Sep 2021 via AFRL, Rome, NY (FA8750-21-C-0252)

University of Toledo (Toledo, OH)

- Photovoltaic Sheets for High-Specific-Power Space-Based Energy Harvesting (PVS-EH): develop and demonstrate the concept of PV sheets (PVS), which of modular, interconnectable, high-efficiency PV power sources fabricated on low-weight flexible substrates using scalable processing; 1 Feb 2021 via AFRL, Kirtland AFB, NM (FA9453-21-C-0056)

Utah State University Space Dynamics Laboratory (North Logan, UT)

- Aerospace Dominance Systems Support: research, development, analysis, and engineering support for the development and modernization of DOD systems; 16 Sep 2021 via AFLCMC, Hill AFB, UT (FA8218-21-D-0004)

University of Washington, Applied Physics Laboratory (Seattle, WA)

- research, development, engineering and test and evaluation for programs throughout DOD within core competency areas: (1) experimental oceanography; (2) acoustic propagation; (3) underwater instrumentation and equipment; (4) marine corrosion; (5) acoustic and related systems; (6) simulations and signal processing; and (7) mission related and public service oriented R&D; 26 Oct 2020 via NAVSEA D.C. (N00024-21-D-6400)

Wichita State University (Wichita, KS)

- research and development to expand various operational spectra (e.g., fighter, bomber, transport) to explore damage growth behavior representative design details such as wing-to-spar joint that exhibits multiple competing failure modes; FA8650-19-C-5212; 6 Nov 2020 via AFRL Wright-Patterson AFB, OH

Science, Technology, Engineering and Math (STEM) via Army Contracting Command, Aberdeen Proving Ground, MD

create and strengthen networks that connect the Combat Capabilities Development Command with academia, industry and government agencies to facilitate the exchange of scientific ideas, the production of knowledge and the development of a STEM workforce;

- A3L Federal Works LLC (Fairmont, WV): W911NF-21-D-0003; 8 Apr 2021
- Chitra Productions LLC (Norfolk, VA): W911NF-21-D-0004; 8 Apr 2021
- HUBZone Headquarters Inc. (Virginia Beach, VA): W911NF-21-D-0005; 8 Apr 2021
- Terasense Inc. (Baltimore, MD): W911NF-21-D-0006; 8 Apr 2021
- Technology Management Training Group Inc. (Huntsville, AL): W911NF-21-D-0007; 8 Apr 2021