

For other military research, see documents: Air Force Research Lab FY2020 and DARPA FY2020 at warindustrymuster.com.

Note: A September 2020 report from the Government Accountability Office, *Defense Science and Technology: Opportunities to Better Integrate Industry Independent Research and Development into DOD Planning*, noted: Corporations “decide what independent R&D projects to conduct and the Department of Defense (DOD) reimburses them about \$4 billion-\$5 billion annually... DOD does not know how contractors’ independent R&D projects fit into the department’s technology goals.”

Research – Army FY2020

GXM Consulting LLC (Ashburn, VA)

- support the Army Research Laboratory’s Sensors and Electron Devices Directorate; issued 30 Sep 2020
 - o Army Contracting Command, Aberdeen Proving Ground, MD (W911NF-20-F-0050) = the contracting activity

MorseCorp Inc. (Cambridge, MA)

- develop technologies to support military airdrop of cargo & personnel, including hardware & software; 14 Aug 2020
 - o Army Contracting Command Aberdeen Proving Ground, MD (W911QY-20-C-0088)

National Security Innovations Inc. (Boston, MA)

- research using eight gray zone research topic areas; 3 June 2020
 - o USACE Alexandria, VA, (W5J9CQ-20-C-0004)

Palantir (D.C.)

- general R&D support of the Army Research Laboratory, Adelphi, MD; 29 Sep 2020
 - o Army Contracting Command, Aberdeen Proving Ground, MD (W911QX-20-C-0041)

Sherpa 6 Inc. (Littleton, CO)

- develop a variety of technologies to support R&D concept prototype components for dismounted Soldier mission command systems, the Integrated Visual Augmentation System and Nett Warrior; 25 Sep 2020
 - o Army Contracting Command, Aberdeen Proving Ground, MD (W911QY-20-C-0102)

Survive Engineering Co. (Belcamp, MD)

- Defense Technical Information Center (DTIC): acquisition, storage, retrieval, synthesis, analysis, and dissemination of 22 technical focus areas and scientific technical info for DOD Information Analysis Center, Fort Belvoir, VA; 19 May 2020
 - o Air Force Installation Contracting Center, Offutt AFB, NE (FA8075-20-D-0001)

Research – Navy FY2020

Abaco Systems Inc. (Huntsville, AL)

- specially developed embedded computing systems known as Multiple False Targets Box Phase two (MFTBOX2) flight units, MFTBOX Phase three (MFTBOX3) flight units, and associated spare components, to support fleet readiness training exercises in electronic warfare jamming; 18 Dec 2019
 - o The flights units are partially integrated, high performance embedded computing systems, and when the Naval Research Laboratory (NRL) completes final system integration with its NRL-owned software, they are used as electronic warfare jamming systems capable of generating advanced jamming techniques. The flight units will be used to train Navy radar operators in modern jamming techniques during their pre-deployment qualification trials in both air-to-air and air-to-surface scenarios.
 - o Naval Research Laboratory, D.C.

Applied Physical Sciences Corp. (Groton, CT)

- multi-disciplinary tools, technologies, and experimental methods in support of future naval platform stealth and operations → Groton, CT (87%); Cheswick, PA (13 %); 25 Nov 2019, 26 Nov 2019
 - o Office of Naval Research, Arlington, VA (N00014-20-C-0001)

Analysis, Computing & Engineering Solutions Inc. (Columbia, MD)

- C4ISR systems design and development → work in D.C.; 24 July 2020
 - o Naval Research Laboratory, D.C. (N00173-20-C-6002)

Arrow Tech Associates Inc., South Burlington, VT

- work on a modular, ultra-extended range quad wing 155mm Deep Strike Cargo Artillery Round (Deep SCAR), compatible with the M777 Lightweight Towed 155mm Howitzer (M777) → work in South Burlington, VT (60%); Franklin, TN (22%); Tewksbury, MA (7%); Carlsbad, CA (5.5%); Kissimmee, FL (4.5%); Phoenix, AZ (1%); N00014-19-S-B001; 30 June 2020
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1071)

Assurance Technology Corp. (Carlisle, MA)

- R&D of transmitting energy for radio frequency systems → D.C. (85%); Carlisle, MA (15%); 20 Dec 2019
 - o Naval Research Laboratory, D.C. (N00173-20-C-2011)
- software definable/reconfigurable systems: continuing R&D support of technology advancements, system requirements definition, architecture development, and system and unit design, development and transition to operational use → Carlisle, MA (50%); D.C. (50%); 28 Sep 2020
 - o Naval Research Laboratory, D.C. (N00173-20-C-2025)

BAE Systems Inc., Wayne, NJ

- Next Generation Waveform Prototype Development Program, an effort to develop and demonstrate a directional networking waveform → Wayne, NJ (62.2%); Huntington Beach, CA (37.8%); N00014-20-C-1060; 16 Apr 2020
 - o Office of Naval Research, Arlington, VA

Bette & Cring LLC (Latham, NY)

- build a co-generation plant with a combined heat and power system to generate electricity and steam at the Naval Research Laboratory; site preparation includes above-ground site demolition and relocations, underground site demolition and utility relocations, excavation, grading preparation for construction and paving; 22 Sep 2020
 - o NAVFAC, D.C. (N40080-20-C-0023)

The University of California San Diego (San Diego, CA)

- improve unmanned systems and in situ ocean sampling → work at the Scripps Institution of Oceanography, UC-San Diego, San Diego, CA; N00014-20-S-B001; 15 June 2020
 - o improve and implement new oceanographic sampling techniques and methods; experimentation “will enable data collections to support the next generation of federated oceanographic data tasking, processing and dissemination for future warfighting and oceanographic applications”
 - o Office of Naval Research, Arlington, VA (N00014-20-C-2039)

Florida Atlantic University (Boca Raton, FL)

- develop a next-generation, high-intake, compact, defined excitation bathyphotometer sensor for natural oceanic bioluminescence assessments; 23 July 2020
 - o Office of Naval Research, Arlington, VA (N00014-20-C-2035)

Goodrich Corp. (Westford, MA)

- the MS-177A Naval Maritime Experiment Program; build and deliver a sensor system in support of fleet and science and technology experimentation goals → Westford, MA (67%); Patuxent River, MD (22%); San Diego, CA (10%); Danbury, CT (1%); N00014-20-C-2012; 15 Apr 2020
 - o first line of effort will ensure integration requirements are identified and the sensor is properly tuned and configured for maritime operations; follow-on experimentation events will enable data collections to support the next generation of maritime federated data processing, exploitation and dissemination for future warfighting applications
 - o Office of Naval Research, Arlington, VA

Innovative Defense Technologies LLC (Arlington, VA)

- the Cloud to Edge Environment; continue work to deliver a secure development and operations (SecDevOps) environment enabling cloud-based collaborative development, simulation, testing and certification of evolving Navy software systems → work in Arlington, VA (68%); Mount Laurel, NJ (23%); D.C. (6%); RI (2%); places below 1%; N00014-19-C-1054; 21 May 2020
 - o Office of Naval Research, Arlington, VA

John C. Grimberg Co. Inc. (Rockville, MD)

- repair a solid-state electronic devices laboratory at Naval Research Laboratory; 13 Dec 2019
 - o NAVFAC D.C. (N40080-20-C-0004)

Navatek LLC (Honolulu, HI)

- the talent and technology for Navy Power & Energy Systems → Honolulu, HI (50%); Columbia, SC (50%); 20 July 2020
 - o will “advance the state-of-the-art autonomous command and control of shipboard power systems, to include next-generation integrated power and energy systems, in order to harness the full energy available in the Navy’s ships to meet critical mission needs”
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1106)
- systematic advances in asymmetric Naval forces and logistics; research to identify opportunities in “current operating fleet and operational methods where asymmetric concepts can be evaluated for further development”; 19 Aug 2020
 - o focus on “increased robustness” of autonomous systems, study the power systems related to small systems & platforms, investigate hydro-mechanical interactions with resilient composite structures, examine system components ancillary to large resilient composite structures, and identify and evaluate opportunities in the Navy’s current operating fleet and operational methods
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1103)

Oceanit Laboratories Inc. (Honolulu, HI)

- continued development of a prototype test unit sensor for integration, test and demonstration with a non-kinetic system under SBIR topic N103-205 titled, “Innovative Imagery Processing Architecture”; provide additional engineering support for the continued development of a Trident Saber Staring unit prototype in support of the Office of Naval Research; N68335-16-G-0028; 25 Sep 2020
 - o Naval Air Warfare Center Aircraft Division, Lakehurst, NJ

Penn State University Applied Research Lab (University Park, PA)

- the Advanced Broadband Navigation Sonar System Future Naval Capabilities Program: develop & demonstrate technologies associated with continuous subsea autonomous navigation improving navigational sonar systems; improved estimation of position and velocity afforded by advanced sonar processing will provide naval platforms with increased navigational performance for undersea platforms; 13 Mar 2020
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1061)
- the Navy Manufacturing Technology (ManTech) Electro Optics Center of Excellence (herein the center): operation and management of the Center to develop naval platform-related manufacturing technologies and transition the technology for implementation in U.S. electro optics and other industrial facilities; 22 Apr 2020
 - o Penn State shall also manage, operate, sustain and enhance the center’s ability to function as a Navy ManTech Center of Excellence.
 - o Office of Naval Research, Arlington, VA (N00014-20-D-7001)

Raytheon (McKinney, TX)

- the naval surveillance application upgrade, improving radio frequency (RF) sensors on naval surveillance applications; N00014-19-S-B001; 27 Feb 2020
 - o improvements will potentially provide increased SWPC (size, weight, power and cooling), modular open system architectures and resolution against small maritime/air targets, detection of moving targets in synthetic aperture radar imagery and the formulation and extraction of other detection and classification features; improvements may demonstrate multi-source autonomous surveillance capabilities in support of the RF detection, tracking and identification thrust area
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1018)

Raytheon (Tewksbury, MA)

- the Receive Only Cooperative Radar and its system: develop new detection algorithms and operating modes for the AN/SPY-6(V)1 radar system, which will improve detection and tracking capabilities of the radar system → work in Marlboro, MA (98%); Fairfax, VA (2%); 26 May 2020
 - o work includes modelling & simulation of new operating modes, revisions of code to incorporate new algorithms, integration of algorithms into demonstration hardware and field tests using representative AN/SPY-6(V)1 demonstration hardware
 - o Office of Naval Research, Arlington, VA (N00014-20-C-1073)

Space Ground Systems Solutions (West Melbourne, FL)

- spacecraft engineering, software, R&D services to the Naval Center for Space Technology (NCST): support for software engineering development, maintenance, enhancement and configuration management support for all components contained within the Neptune™ software suite under the direction of the Naval Research Lab's Configuration Control Board, and the VMOC™ software framework under the direction of VMOC™ program management and software engineering teams → D.C. (50%); West Melbourne, FL (50%); N00173-15-D-2015; 11 Oct 2019
 - o Naval Research Lab, D.C.
- research & prototype development of spacecraft electronics and space/airborne electronic systems and maintenance, development, enhancement, and testing supporting mission operations of DOD space assets; 8 June 2020
 - o The Naval Center for Space Technology (NCST), located at the U.S. Naval Research Laboratory (NRL) in D.C., is the designated lead laboratory for Navy space programs. "This contract will support the continual development and advancement of the software and hardware that provides state of the art solutions to space applications."
 - o Naval Research Lab, D.C.

Undersea Signal Systems Inc. (Columbia City, IN)

- develop a prototype sonobuoy known as Extended Range Directional Frequency Analysis and Recording (ER-DIFAR) "to address new and quiet threat submarine targets"; N00014-19-S-B001; 20 Jul 2020
 - o Office of Naval Research, Arlington, VA (N00014- 20-C-2015)

Woods Hole Oceanographic Institution (Woods Hole, MA)

- design, development, integration, and testing of an acoustic navigation network, a distributed communication system, gateway buoy nodes, and unmanned vehicle capabilities to support the Arctic Mobile Observing System (AMOS) Innovative Naval Prototype; 29 Sep 2020
 - o Office of Naval Research, Arlington, VA (N00014-20-C-2053)