

We Are Hiring! Research Scientists



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Electromagnetic Maneuver Warfare

Agile, effective operations in the battlespace of the RF spectrum



Mission Areas

- Coordinated electronic warfare
- Persistent battlespace awareness
- RF-enabled cyber effects
- Edge sensing and processing

Research Areas

- Multi-modal sensor fusion
- RF front end design
- Low-SWAP hardware and algorithms
- Internet of Things (IoT)

POC

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Naval Information Warfare Center (NIWC) Atlantic is seeking qualified candidates in the areas of:

- **Electrical Engineering**
- **Radiofrequency (RF) Engineering**
- **Digital Signal Processing and related fields**

Selectee(s) will serve as a principle investigator or technical performer for research and development (R&D) of emerging technologies for RF sensors and emitters to support information warfare operations.

R&D would include design and development of proof of concept/prototype technology demonstrations of single and multi-antenna devices, advanced analog and digital signal processing, and implementation on embedded systems for Navy and USMC sponsors.

Candidates must have an advanced degree (M.S. or higher) in Electrical Engineering or comparable field of study.

Prior experience with or exposure to tactical and theater level maritime operations (e.g., Operational Planning, Operational Intelligence Analysis, Strike Group Operations, Maritime Operations Center (MOC) Watchstanding) is not required but is highly desired.

Duties & Responsibilities:

You will serve as a:

- **Principle** investigator or technical performer for research and development (R&D) of emerging technologies for RF sensors and emitters
- **Subject matter expert** in one (or more) of the following technical domains: (a) RF antenna design, (b) digital signal processing using FPGA/SoC/GPU and/or embedded microcontrollers, (c) software-defined radio, OR (d) distributed sensing and computation across networked devices

You will:

- **Design** and conduct basic and/or applied research programs, OR design and develop proof of concept/prototype technology demonstrations for Navy and USMC sponsors
- **Publish** and present research results at symposia and conferences, OR provide demonstrations of technology prototypes at formal demonstration and experimentation events
- **Lead** or assist in the preparation, briefing, and defense of proposals/grants for research and development (R&D) efforts to various DOD sponsors
- **Collaborate** with researchers and partners across DOD, industry, and academia