ELECTRICAL ENGINEER, COMPUTER SCIENCE, and PHYSICS

US Citizenship Required

Location: Naval Surface Warfare Center, Dahlgren, VA


Job and Organizational Description: The Electronic Warfare (EW) & Sensor Systems Division of the Naval Surface Warfare Center, Dahlgren Division, is in need of entry-level civilian scientists and engineers. The EW & Sensor Systems Division is responsible for establishing requirements for EW and Sensor systems; research, development, test, evaluation, and integration of EW and sensor systems; and analyzing sensor data to assess performance. The sensor portfolio also includes a focus on the development of cutting edge science and technology sensor capabilities to meet future technology needs and gaps. Key technical areas include: EW engineering, combat system integration, test and evaluation, software development, radar and sensor data collection and analysis, environmental sensor analysis, Electro-optical/Infrared (EO/IR) system development, testing, and integration; and materials science.

Candidates would be trained to perform in one or more of these major duties:

- Evaluate emerging technologies for integration into current and future sensor and/or combat systems
- Develop and architect EW and sensor systems
- Plan and conduct test events (including shipboard) for EW & Sensor systems to evaluate their performance
- Conduct shipboard installation of sensor systems to collect data, and assess system performance
- Analyze and assess EW & sensor data to ensure system performance
- Conduct research and algorithm development in order to discriminate targets
- Develop, maintain, and sustain computing hardware and software, including tactical software and analysis tools

Tasks range from technology feasibility evaluations; testing and evaluation of EW and sensor systems; analyzing sensor data to measure performance; and support of hardware and software for fielded EW & Sensor systems in the US and abroad.

Candidates are sought that would have several of the following skills and abilities:

- Ability to work independently and in a team environment
- Ability to apply concepts of engineering, science, and mathematics
- Ability to effectively communicate technical concepts verbally and in writing
- Ability to break problems down into basic parts
- Knowledge of signal processing
- Ability to integrate hardware and software systems
- Ability to develop software (e.g. C, C++, Java, MATLAB, Python, QT languages)
- Ability to perform data analysis
- Ability to develop mathematical algorithms
- Ability to troubleshoot hardware and/or software
- Knowledge of design of experiments for test and evaluation

**Candidates are typically hired from the following disciplines:**
- Engineering (e.g. Electrical)
- Mathematics (applied)
- Physics
- Computer Science
- Other science or engineering degrees are considered and necessary

**Contact information:**
Use subject line: “recruiting for EW & Sensor Systems Division-your name” and email all of the following people:
  - Jennifer Clift, jennifer.clift@navy.mil
  - Parker Page, parker.page@navy.mil
  - Julie Heflin, Julie.heflin@navy.mil
  - Mark Karrick, mark.karrick@navy.mil

In the email text, include a short description of what your background and interests are and attach your resume and a copy of your transcript(s).