

The Sensor Technologies Branch External Announcement

Job Summary: The Sensor Technologies Branch at the Naval Surface Warfare Center Dahlgren Division is seeking scientists or engineers with skills in Infrared (IR) technologies and systems. The Sensor Technologies Branch is currently performing research & development, signature analysis, system engineering and integration, field evaluation, and technology acquisition support for multiple IR Sensor Projects. Projects being supported currently include those involving development and fielding of IR tracking and surveillance systems, evaluation of spectral signatures of military equipment in the shortwave infrared spectrum, research and development of Gradient Refractive Index (GRIN) optics, evaluation of IR counter-measures for fielded systems, and lab characterization of IR systems.

Opportunities exist within one or more of these projects for optical science or engineering personnel. Each project has needs that require knowledge and skills in all areas of the Research, Development, Test, and Evaluation lifecycle. Current vacancies require immediate skills in IR system development and IR data and imagery analysis.

Duties: The incumbent will work closely with other project scientists and engineers within NSWCDD and with Integrated Product Team members at other DOD locations. The incumbent's main duties will be in analysis of IR sensor systems and IR sensor data. Interaction with sponsors at the Office of Naval Research and customers at USMC sites is frequently required. The incumbent will participate in IR data collection events in the lab and at appropriate test ranges. Travel will usually be within CONUS, but occasional OCONUS travel may be required to provide technical support or field test and data collection. The incumbent will produce documents required in characterization and evaluation of sensor systems and capabilities as required.

The incumbent will be required to be able to work independently, but also within a team construct. The incumbent may be required to work on more than one project or task concurrently. The Sensor Technologies Branch recognizes that a singular individual may not have all desired competencies or skills, but is seeking highly motivated persons with sufficient background technical abilities to fill this position.

Qualifications and Competencies Required:

1. General Optical Science or Optical Engineering Skills
 - a. Understanding of cameras, imagers and devices operating in the IR spectrum
2. Ability to use MATLAB or other data analysis tools.
3. Ability to comprehend and perform sensor and sensor system evaluation procedures/plans
4. Ability to perform analyses of infrared and other sensor data.
5. Ability to work independently or as a member/leader of a multi-organizational team
6. Ability to communicate effectively both orally and in writing with strong technical report writing skills.
7. Ability to obtain a Secret Clearance is required.

Qualifications and Competencies Desired:

1. Expertise in radiometry
2. Expertise in spectroscopy
3. Expertise in image analysis
4. Ability to perform basic computer programming in current computing languages
5. Familiarity with sensor modalities other than IR, such as RF.

How to Apply: Provide a resume and a written response to Parker Page, parker.page@navy.mil
