

Engineer/Physicist (signal processing and analysis, remote sensing and imaging) -12566

Position Description

Introduction: The Johns Hopkins University Applied Physics Laboratory (APL), a national leader in scientific research and development, located midway between Baltimore and Washington, DC is seeking an Engineer/Physicist (remote sensing and imaging, signal processing and analysis) to work on problems of national importance as part of the Algorithm Development & Analysis section of the Oceanic, Atmospheric and Remote Sensing Sciences Group.

Job Summary: Conduct innovative research in analysis and exploitation of remote sensing and in situ data in support of novel maritime domain applications, e.g. undersea warfare and other programs of national importance. This is a unique opportunity to collaborate with dedicated professionals from a variety of technical backgrounds to solve critical challenges. Projects span a wide range of sensing technologies (optical, radar, lidar, and in situ systems etc.) and technical fields, including but not limited to: statistical modeling, signal and image processing, algorithm development, and machine learning.

Duties:

1. Analyze data and compare results with model predictions. Develop physical understanding of phenomenology. (40%)
2. Develop and apply algorithms to exploit remote sensing and in situ data. (40%)
3. Plan and participate in field tests. (5%)
4. Communicate results effectively, in both written and oral form, to sponsors, peer organizations and applicable R&D communities. (15%)

Note: *This job summary and listing of duties is for the purpose of describing the position and its essential functions at time of hire and may change over time.*

Qualifications

Required Qualifications: Ph.D. in physics, electrical engineering, applied mathematics or related field, or M.S. in related technical discipline with at least 5 years of relevant work experience, to include remote sensing and demonstrated research capabilities. Knowledge of and experience in signal processing and data analysis. Well developed computer programming skills applicable to scientific analysis (e.g., MATLAB, PYTHON, FORTRAN).

Desired Qualifications: Experience with optical and/or radar remote sensing systems. Experience with NTM systems and associated infrastructure.

Special Working Conditions: Occasional travel and field tests.

Security: Top Secret Clearance is required. Applicants selected will be subject to a Government security investigation and must meet the eligibility requirements for access to classified information up to the Top Secret level. Eligibility requirements include US citizenship.

Equal Employment Opportunity: Johns Hopkins University/Applied Physics Laboratory (APL) is an Equal Opportunity/Affirmative Action employer that complies with Title IX of the Education Amendments Acts of 1972, as well as other applicable laws. All qualified applicants will receive consideration for employment without regard to race, color, religion, sexual orientation, gender identity, national origin, disability, or protected Veteran status.

Classification Sr. Professional Staff I - Alternate Classification Sr. Professional Staff II
Admin Professional Level Not Applicable - Admin Professional Level Alternate Not Applicable

Primary Location

*Maryland-*Laurel
Group KTF

Employee Status

Regular

Schedule

Full-time

Contact: **Michael Nord** <michael.nord@gmail.com>