

### DETAILS

#### Location:

The U.S. Naval Research Lab (NRL) in Washington DC

#### Facility:

NRL operates a unique Single-Stage Accelerator Mass Spectrometry (SSAMS) facility that is capable of analyzing positive ions up to the actinides (unique for AMS systems). Currently a Secondary Ion Mass Spectrometer (SIMS) is coupled to the SSAMS to provide spatially and depth resolved analysis of materials. It is possible to add other ion sources to the SSAMS to better address specific problems

#### Discipline:

Physics, Materials Science, Geochemistry

#### Restrictions:

U.S. Citizenship required

#### Point of Contact:

Alberto Piqué  
[6360branch.office@nrl.navy.mil](mailto:6360branch.office@nrl.navy.mil)

The NRL Materials Science and Technology Division seeks to fill a full-time, civil service position for a mid-career level scientist with an advanced degree, preferably a PhD (Physicist, Materials Scientist or Geo/Cosmochemist preferable). The successful candidate will lead a research group focusing on the application of the SIMS-SSAMS capabilities to basic research in materials science, advanced Navy/DoD relevant measurement and characterization requirements, and long term development of the facilities to include the use of other ion sources (beyond SIMS). Supporting analytical tools and expertise are available to support multidisciplinary research within the Materials Science and Technology Division, at the adjacent NRL Nanoscience Institute and throughout the laboratory.

#### Qualifications:

1. Considerable experience with SIMS, especially those with magnetic sector mass spectrometers as well as other mass spectrometric and microanalytical methods.
2. A working knowledge of electronics design, operation and repair related to experimental systems.
3. The ability to design vacuum system and ion optical components.
4. Demonstrated leadership in research project and personnel management in a laboratory setting.
5. An understanding of the applications of AMS to trace and ultra-trace measurements with potential applications to advanced materials, forensics, nuclear forensics, geochemistry, cosmochemistry and beyond.

Applicants should be recognized as subject matter experts in the above areas of research; should possess the ability to formulate strategic research objectives based on core scientific and technical areas of expertise; and be able to establish partnerships with Navy, DoD, industry and academic organizations to leverage complementary expertise and resources. Applicants selected must be able to obtain and maintain the required level of clearance.

NRL is an Equal Employment Opportunity Employer