

TITLE: Analytical Chemistry Associate Researcher (U.S. Citizens preferred)

Overview

The Material Measurement Laboratory of the National Institute of Standards and Technology is seeking qualified persons (U.S. Citizens preferred) to perform sample dissolution, preparation, and neutron activation analyses supporting NIST's SRM mission and other critical research areas requiring neutron activation methods. The candidate will work alongside NIST scientists to develop new SRMs to meet the need of U.S. stakeholders and develop procedures to measure the elemental composition of research projects, such as measurements of electronic scrap to further enhance U.S. domestic supply of critical minerals. The candidate will work with a variety of samples and have the ability to enhance their analytical chemistry skillset using state-of-the-art equipment and a diverse set of analytical techniques.

Duties

- Develop analytical method for elemental quantification of electronic scrap
- Data analysis and sample preparation for Instrumental Neutron Activation Analysis (INAA)

Required Skills, Expertise and Qualifications

- Doctorate degree in chemistry, geology, geochemistry
- At least 5 years of experience working at a nuclear facility performing INAA
- Comfortable performing acid dissolutions using strong acids such as HNO₃, HCl, and HF

Other Desirable Qualifications

- Experience working in a lab/facility following ISO 17034 guidelines
- Proficient in MS office suite
- Proficient in gamma-spectroscopy software, such as Genie 2000 and Hyperlab
- Safety conscious
- Works well independently and in a team setting

Employment Terms: This opportunity is to be an associate researcher in the NIST Chemical Sciences Division for a term of 1 year, with options to renew. Associate researchers are NOT Federal Employees, but they work along with NIST researchers and with NIST's often world class instrumentation. Relocation expenses will not be provided. U.S. Citizens hired into associate positions may have the opportunity to seek longer term Federal Employment.

Salary: \$90,000 – \$110,000

How to express interest: Persons (U.S. Citizens preferred) who meet all of the required qualifications and who would be interested in taking this position are invited to express their interest by sending an email that briefly describes their qualifications along with a CV to 646assoc@nist.gov. U.S. Citizens should note "U.S. Citizen" and the opportunity title in the email subject line. All others should note "Non-U.S. Citizen" and the opportunity title in the email subject line.