



RECRUITMENT ONLY

Position: Associate Chemist – Radiological/Nuclear
Reference #: 01591
Organizational Unit: NS- FS/OS
Appointment Type: Full-Time
Location: Charlottesville, VA and OCONUS
Date Posted:

PURPOSE: To provide Chemists to operate, maintain and perform technical nuclear forensics analysis using applicable laboratory instrumentation, tools, and techniques on radiological and/or nuclear materials of interest in CONUS and/or OCONUS locations.

ESSENTIAL JOB FUNCTIONS:

- Define new methods to support expansion of laboratory capabilities and improve/solve existing method deficiencies.
- Follow Standard Operating Procedures (SOPs)
- Review, evaluate, and analyze data from samples and provide database entry support
- Perform equipment/instrument maintenance
- Operate, maintain and perform radiochemical sample analysis using applicable laboratory instrumentation and techniques required to identify attribution signatures (i.e., indicating country of origin such as geological/industrial, isotopic composition/ratios); characterization signatures (i.e., those indicating process such as chemical form, physical form); and indicative signatures (i.e., those that by themselves do not indicate origin, process, or use such as elemental composition, trace constituents)
- Knowledge of techniques for radiation detection, counting and spectroscopy, imaging and microscopy, mass spectroscopy and gas chromatography, and data analysis
- Knowledge and/or utilize, maintain, and troubleshoot instrumentation such as the following:
 - Gas Chromatography Mass Spectrometry (GC/MS)
 - Fourier Transform Infrared (FTIR) Spectroscopy
 - Liquid Chromatography/ Mass Spectrometry / Mass Spectrometry (LC/MS/MS)
 - X-Ray Fluorescence (XRF)
 - X-Ray Diffraction (XRD)
 - Scanning Electron Microscope (SEM)
 - Inductively Coupled Plasma Mass Spectrometry (ICPMS)
 - Polarized Light Microscope (PLM)
 - Ion Chromatography (IC)
- Compare sample results to a library of known results for the specific instrumentation

Visit www.ornl.gov/careers to apply through the preferred process. If you have any questions please email work@ornl.gov

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Applicants that apply for a position that requires access authorization then ORAU will test for the absence of any illegal drugs as defined in 10 CFR 707.4. ORAU will also conduct a background investigation by the Federal government as required to obtain an access authorization prior to employment, and reinvestigations will be conducted as required.

Applicants that apply for a position that are covered by the Counterintelligence Evaluation Program regulations as defined in 10 CFR 709 may be required to have a counterintelligence-scope polygraph examination.

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and chemical being tested

- Use photographic equipment to capture still images of each evidence item and relevant key portions of the evidence item, or other exhibits, to support further analysis, conclusions, and documentation
- Document examination results/findings in the required Laboratory Information System(s) and databases
- Annotate the file documentation, detailing the processing techniques and the examination results
- Perform administrative and/or technical reviews of files, reports, data, etc.
- Ensure a proper chain of custody for all evidence and samples is maintained
- Maintain a clean laboratory and personal workspace environment, in accordance with laboratory procedures
- Assist in executing test plans, validations, research and development and method development

JOB REQUIREMENTS:

- A Bachelor's degree in science (e.g., radiochemistry, physics, nuclear engineering or related field) **OR** five (5) years directly relatable experience
- One (1) year of experience working in the Intelligence Community (IC) environment
- Proficiency working with chemistry analytical methodologies such as Gas Chromatography (GC) and/or Fourier Transform Infrared (FTIR) Spectroscopy
- Must possess, at a minimum, intermediate computer skills and experience with Microsoft Office applications including Word, Excel, PowerPoint, Access, Project and Outlook
- Must be able to successfully pass all medical requirements for deployment, as needed
- Must be able to successfully pass a skills assessment
- Experience working in a forensic laboratory
- Must be able to successfully pass a skills assessment.
- Currently have an active DoD Secret security clearance
- U.S. citizenship
- Eligible for both US Tourist Passport and US Official Passport

DESIRED QUALIFICATIONS:

- Previous experience working in a in laboratory environment performing detection, analysis and characterization of radiological/nuclear materials
- An active DoD security clearance – Top Secret w/ SCI eligibility or TS/SCI
- Deployed experience in an Analytical/Operational environment

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