

R&D Scientist

Engineering
07/21/15 • Full Time
Kansas City, MO

Description:

The **National Security Campus (NSC)** is a **U.S. Department of Energy (DOE)**, National Nuclear Security Administration (NNSA) facility managed and operated by Honeywell Federal Manufacturing & Technology (FM&T). Our primary business is to manufacture sophisticated mechanical, electronic, and engineered material components for our nation's defense system. Our goal is to seek innovative solutions that surpass our customers' expectations. To accomplish this, we research, develop, and deploy some of the most advanced design and manufacturing technologies in use in the United States today.

This scientist will perform a variety of advanced chemical tests, processes, and procedures to support production and research and development on a wide variety of materials. The primary responsibility of this position is to develop advanced methods and experiments using Nuclear Magnetic Resonance (NMR) spectroscopy. Furthermore, this scientist will be expected to leverage other analytical techniques to provide unique solutions.

Summary of Duties:

The candidate will participate in studies that may include designing, synthesizing, characterizing, and developing materials of interest to defense research and development. The successful candidate will enhance the capabilities of an ongoing research and development program, within a multi-disciplinary organization dedicated to advanced materials studies by leveraging NMR spectroscopy. Extensive working knowledge of 1D and 2D NMR techniques applied to materials chemistry (small molecule and polymer) is needed. Working knowledge of complementary spectroscopy techniques (MS, FT-IR, ICP) and wet-chemistry methods (titrations) is desirable. At a basic level, the candidate must be able to perform (advanced) NMR experiments, interpret NMR spectra, and maintain the instrument. Additionally, the candidate may perform other duties as required.

The successful candidate will have a strong customer-service focus, and the ability to communicate effectively with customers who have limited knowledge of chemistry. A willingness to work either as an independent investigator or as a member of a multi-disciplinary cross-functional team, depending on the nature of the situation; and the ability to generate accurate and precise analytical data, interpret data, prepare formal reports and make formal presentations of results, conclusions and recommendations.

It is expected that all employees conduct activities in a safe and healthy manner and work in accordance with established ES&H requirements to ensure the protection of associates, the public, and the environment. Employees are expected to take actions necessary to "stop" work when an unsafe condition or action is identified as every associate has the right and responsibility to stop work when unsafe conditions or actions are identified. Performs and analyzes routine to moderately complex analytical and/or engineering functions, quality control functions designs, and specifications to achieve efficient, cost effective and reliable manufacturing or measuring processes, applying advanced mathematical, scientific, and/or engineering technologies. Follows established procedures in completing multiple technical assignments.

Basic Qualifications:

- US citizenship in order to obtain and maintain US Dept of Energy "Q" level security clearance
- B.S. in Chemistry, Chemical Engineering, Materials Science, or related field
- Minimum of 3 years of experience with liquid state Nuclear Magnetic Resonance (NMR)
- Minimum of 3 years of experience with interpretation of NMR spectra
- Minimum of 2 years of experience with NMR instrument maintenance
- Minimum of 3 years relevant experience in a role related to testing and analysis in an Analytical Chemistry laboratory environment.

Additional Qualifications:

- Minimum of 3 years of experience with 2D NMR
- Minimum of 3 years of experience with Multi-nuclear NMR
- M.S. or Ph.D. in Chemistry, Chemical Engineering, Materials Science, or related field
- Knowledge, with experience in instrumental analysis including:
 - Solid state NMR techniques
 - Cryogenic NMR techniques
 - FTIR
 - Raman Spectroscopy
 - Chromatography (i.e., GC, GPC, HPLC, IC, GCMS, LCMS)
 - Mass spectrometry data interpretation
 - UV/Vis
- Strong Leadership ability and ability to actively contribute to teams or work independently.
- Experience in the preparation and presentation of analytical information to all levels of stakeholders.
- Experience using MS Office Suite desktop applications, such as MS Word, Excel, PowerPoint
- IT skills beyond basic MS Office skills involving Analytical Instrument software, networking, and other computer systems used.
- Able to work independently with little to no supervision on all job responsibilities.
- Ability to manage multiple assignments and responsibilities concurrently.

Note: Candidates who present more extensive experience and education may be considered for a higher level (Scientist III or Senior Scientist) level, if business requirements warrant.

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Honeywell is an equal opportunity employer.

Qualified applicants will be considered without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality, sex, or veteran status.