



## ***Be a Catalyst for Innovation***

**The Dow Chemical Company is seeking talented Ph.D. researchers to join their R&D team.**

### **Research Scientist– Materials Characterization – Neutron Activation Analysis**

#### **Description**

The Dow Chemical Company has an exciting and challenging opportunity for a Ph.D. level scientist to fill the role of Research Scientist with Dow's Analytical Sciences group located in Midland, Michigan. The Analytical Sciences global capability is part of Dow's Core R&D organization which delivers world-class science and technology to discover, develop and commercialize new Dow products. Dow Analytical Sciences has comprehensive capability in characterization and measurement science including a TRIGA Research Reactor dedicated to Neutron Activation Analysis. This role requires fundamental chemistry, physics, materials science talent and strong materials characterization skills utilizing Neutron Activation. This includes identification and quantification of chemical compounds and understanding chemistries related to product/process performance and developing novel product/process with unique characteristics. Dow Analytical Sciences provides businesses with innovative solutions for complex R&D problems.

#### **Elements of this role include**

- Subject matter expert for Dow (globally) in the area of instrumental neutron activation analysis.
- Understand the use, limitations/strengths, calibration, maintenance, data interpretation, and application of neutron activation analysis.
- Develop, validate, document, and implement methodologies associated with the above neutron activation analysis.
- Understand and use experimental design, hypothesis testing, and statistical analysis in every day functions.
- Work closely with R&D and manufacturing to implement the most effective inorganic characterization technologies needed for product development, unit operation optimization, quality control, production troubleshooting, and IP generation.
- Develop and maintain a close relationship with commercial vendors of neutron activation analysis products and research reactor products so as to keep informed of new technology developments and to inform vendors of Dow's present and future needs.
- Develop and maintain a close relationship with other laboratories that perform routine neutron activation analysis and method development.
- Develop and maintain a working relationship with the Nuclear Regulatory Commission's project managers and inspectors
- Understand and implement required safety and security regulations and keep informed of new and pending regulatory requirements.

## **Qualifications**

A Ph.D. in Chemistry, Chemical Physics, Physics, Nuclear Engineering, or Materials Science is required for this position. Ability to obtain and maintain a senior reactor operator license issued by the United States Nuclear Regulatory Commission for the Dow TRIGA Research Reactor is required. Experience with chemical analysis using Neutron Activation is required. Good interpretation skills, strong communication skills, and working successfully in a team environment are necessary.

A minimum requirement for this U.S. - based position is the ability to work legally in the United States on a permanent basis (must be a U.S. citizen, U.S. Permanent Resident or qualifying Asylee / Refugee).

At Dow, we are harnessing the power of science and technology to improve the lives of people around the world. We are accomplishing this by empowering our people - the Human Element - to lead change. To recognize their outstanding efforts and contributions, we offer a total rewards package which is considered top tier in our industry.

## **Dow offers:**

- Competitive salaries and comprehensive benefits
- An annual variable pay program that rewards team and individual performance and shares company, business or functional success
- Employee stock ownership - and the commitment to long-term success that it brings
- On-going learning opportunities in a rewarding work environment
- Career experiences that can span different Dow businesses and functions with opportunities for personal and professional growth
- The chance to work on global teams with colleagues around the world and in different locations

## **Apply to this position**

<https://dow.taleo.net/careersection/10020/jobdetail.ftl?job=1104130>