

Bioanalytical – Bioseparations Career Opportunity PhD Analytical Chemist / Leader The Dow Chemical Company

The Dow Chemical Company is making a strategic investment to significantly ramp up product development activities in BioSciences markets. This emerging industry is stimulating a large effort in the R&D of new biotechnology-derived products ranging from agricultural commodities, to biomaterials, biomimetics, and biofuels. Bioseparations capabilities are required to advance this type of research. Dow has chartered a Bioanalytical Center to be located at Dow AgroSciences in Indianapolis, IN and is offering excellent career opportunities to bioanalytical researchers. Members of this BioAnalytical Center will be accountable for leading the development and implementation of bioseparations technologies for all Dow AgroSciences and Dow BioSciences product platforms

The Dow Chemical Company has an immediate opening for a Ph.D. Analytical Chemist in our Dow AgroSciences, Bioanalytical Center in Indianapolis, IN. If you are qualified and interested, please send your resume to Tammy Dominowski, tdominowski@dow.com. Please specify Bioanalytical CoE - BioSeparations in the subject line of the e-mail.

Job Description: The candidate will be expected to:

- Establish and deliver long-term technical expertise and leadership in the area of biological Separations Science for the DowAgroSciences and The Dow Chemical company.
- Work with R&D leaders to establish the Bioanalytical Center at Dow AgroSciences.
- Be responsible for leading, coordinating, and practicing advanced bioanalytical separations in support of Biotechnology R&D in plant and microbial systems.
- Work with a cross-functional bioanalytical team to establish state-of-the-art capabilities for protein quantitation and characterization, metabolite quantitation and identification, quantitative genomics, and development and maintenance of quality bioanalytical standards
- Provide technical mentorship of other researchers in the bioanalytical team.

Candidate Attributes:

- Ph.D. in Analytical Chemistry, Biochemistry, or Organic Chemistry is required. Industrial and/or post-doctoral experience is preferred.
- A track record of highly effective communication (written, publications, & verbal), interpersonal skills, teamwork.
- Demonstrated ability to lead productive technical teams
- Transferable skills and flexible technical interests aligned with Dow competencies and product platforms.
- Strong Separation Science fundamentals with proficiency in a variety of techniques, such as Liquid Chromatography, LC/MS, CE, GC, immuno and/or affinity chromatography.
- Analytical chemistry specialization and excellent quantitative problem solving skills.
- Demonstrated ability to answer complex bioanalytical questions through the successful implementation of bioanalytical separation science

Areas of Technical Expertise:

Experience in one or more of the following is highly valued:

- Developing separations of proteins and peptides (chromatography/electrophoresis, multi-dimensional strategies, chip-based approaches)
- Developing quantification methods in complex biological matrices (automated, high throughput sample preparation, immunodepletion, other)
- Development and implementation of strategies for characterizing protein structure, including tertiary structure and post translational modifications
- Quantitative genomics, separation of DNA/RNA
- Chromatographic analysis of metabolites and other biomolecules (eg. lipids, carbohydrates, phospholipids, flavenoids, plant hormones, other)
- Generation of regulatory reports supporting product registration
- Isolation of target proteins and protein isoforms from complex biological matrices



About The Dow Chemical Co.

The Dow Chemical Company manufactures and sells chemicals, plastic materials, agricultural and other specialized products and services. Based in Midland, MI, the Company has revenues of \$46.31 billion and employs about 42,413 people. It operates in the following segments: performance plastics, performance chemicals, agricultural products, plastics, chemicals, and hydrocarbons and energy. It serves in areas ranging from insurance, agriculture, automotive, paper and consumer durables. It sells more than 3,500 products in about 180 countries.



About Dow Agrosciences

Dow AgroSciences annual sales of \$3B support a large effort in R&D of new agricultural products ranging from agricultural chemicals and transgenic traits focused on enhanced agronomic performance, to plant derived animal health vaccines. Dow AgroSciences is a wholly owned subsidiary of the Dow Chemical Company, with headquarters and R&D facilities located in Indianapolis IN.