

Immunochemistry and Antibody Technology Career Opportunity at The Dow Chemical Company

The Dow Chemical Company is making strategic investments to enable new product development in the BioSciences arena. This emerging market space targets R&D in new biotechnology-derived products ranging from agricultural commodities, to biomaterials, biomimetics, and biofuels. Immunochemistry and antibody technology play central roles in this field of research and development. Dow is building a Bioanalytical Center of Expertise located at the Dow AgroSciences facility in Indianapolis, IN. As a member of this Bioanalytical Center you will be accountable for expansion of in-house immunochemistry and antibody technology capabilities and for leveraging these capabilities to accelerate discovery and development of new products for Dow BioSciences initiatives and for Dow AgroSciences projects and product platforms.

Key Responsibilities:

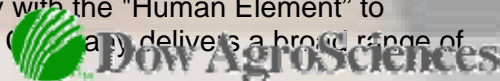
- Advance our immunochemistry capabilities in-house by establishing multiplexed assays, creation of 'designer' immunoreagents for purification and identification purposes, and exploring alternative methods for antibody creation. Establish and implement a strategic plan for alignment of immunochemistry and antibody capabilities with core R&D needs.
- Act as an internal technical expert to develop a robust capability for immuno-based analysis, and extension of detection/amplification technologies, including pcr, aptamer, fluorescent, and quantum dot conjugates, and multiple modes of detection (SPR, TRFIA, FRET). Enable automated and/or multiplexed and/or hyphenated (immuno-MS) assays based on immunochemistry.
- Advocate for and deploy novel immuno-based capabilities to advance projects, such as plant trait identification, cell sorting, metabolic pathway analysis, in situ hybridization, and protein localization or molecule trafficking in vivo.
- Accelerate immunochemistry technology deployment within Dow BioSciences and Dow AgroSciences by training scientists in use of in-house capabilities and by raising organizational awareness of advances in the state of the art of the field.

Candidate Requirements:

- PhD with 3-5 years or MS with 8-10 years direct experience in applied immunochemistry
- Track record of documented application of novel immunochemistry capabilities to protein and target molecule analysis
- Knowledge in theory and practice of current immunochemistry technologies for antibody creation, characterization, modification, optimization. Broad experience in application for analytical purposes and for purification/identification of target molecules. Experience with relevant detection and imaging technologies, including in situ techniques. Broad experience in sample preparation techniques and experience with appropriate statistical tools for experimental design and optimization.
- Experience with field assay kits, automation, immuno-based cell sorting, or an understanding of GLP would be desired
- A highly interactive operational style, developing partnerships with scientists generating data, working in multidisciplinary, matrixed teams, and demonstrated ability to influence stakeholders in both the areas of biological analysis and imaging
- Familiarity with allied technologies (molecular analysis, proteomics, nano-materials) would be advantageous

Please visit www.dowagro.com/careers to apply online this position (job number 800352) and view other active openings. Only online applicants will be considered for employment.

With annual sales of \$54 billion and 46,000 employees worldwide, Dow is a diversified chemical company that combines the power of science and technology with the "Human Element" to constantly improve what is essential to human progress. The Company delivers a broad range of



products and services to customers in around 160 countries, connecting chemistry and innovation with the principles of sustainability to help provide everything from fresh water, food and pharmaceuticals to paints, packaging and personal care products. References to “Dow” or the “Company” mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at www.dow.com

Dow AgroSciences LLC, based in Indianapolis, Indiana, USA, is a top-tier agricultural company that combines the power of science and technology with the "Human Element" to constantly improve what is essential to human progress. Dow AgroSciences provides innovative technologies for crop protection, pest and vegetation management, seeds, traits, and agricultural biotechnology to serve the world's growing population. Global sales for Dow AgroSciences, a wholly owned subsidiary of The Dow Chemical Company, are \$3.8 billion.

The Dow family of companies are an equal opportunity employer offering excellent career opportunities, as well as competitive compensation and benefits package including:

- 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