



BCD BIOSCIENCE

BETTER CARBOHYDRATE DESIGN

231 G. St. Suite #24, Davis, CA, 95616

Scientist/ Senior Scientist – Bioanalytical Mass Spectrometry/ Metabolomics

BCD Bioscience is a fast-paced, emerging biotechnology spinout from UC Davis creating ingredients for food, ag, and biopharmaceutical applications. We use proprietary technology to create novel oligosaccharides from natural products, with a focus on producing ingredients that beneficially modulate the microbiome and immune function.

Overview:

We are seeking a motivated analytical chemist to join our rapidly growing company. This position will report to the Principal Scientist and will be responsible for operationalizing and employing a variety of techniques for the structural characterization of poly- and oligosaccharides. This person will also be responsible for implementing metabolomic assays (SCFA, bile acids, tryptophan metabolites). Other responsibilities will include data analysis, method development, and general troubleshooting.

The candidate will be required to work both independently, but also with internal and external collaborators. Previous experience with carbohydrates is desired; however, successful candidates can have experience working with proteins or other biomolecules. The analytical team serves as the link between the different arms of our discovery and production pipeline. As a scientist you will be expected to support the research and development team in discovering and structurally characterizing new oligosaccharide products, to provide high quality data for our process engineers to optimize our chemistry at scale, and to work with our microbiology team to analyze the metabolic output of our targeted bacteria. Experience in high throughput glycomics, proteomics, or metabolomics is recommended. A highly exceptional candidate would have experience in both structurally characterizing complex carbohydrates and implementing metabolomic profiling using a variety of mass spectrometry platforms.



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Summary of Key Responsibilities:

- Streamline already implemented data analysis workflows.
- *De novo* structural characterization of complex carbohydrates (oligosaccharides, polysaccharides) using liquid chromatography mass spectrometry.
- Implementing new technologies around carbohydrate and metabolite analysis.
- Authoring technical reports, SOPs, and maintaining clear and concise laboratory notebooks.
- Prioritizing analytical work for multiple project simultaneously
- Conducting literature reviews on topics of interest.
- Provide support in maintaining laboratory instrumentation.

Qualifications:

- PhD in chemistry, biochemistry or a closely related field that emphasizes analytical chemistry. 2-5 years of relative industry experience.
- Experience working with biological molecules (lipids, proteins, metabolites), carbohydrates, glycoproteins, human milk oligosaccharides preferred.
- Expertise in mass spectrometry and liquid chromatography techniques.
- Have a cooperative and “get it done” mentality and entrepreneurial spirit
- Demonstrated experience in rapid and high-throughput analytical techniques and data analysis.
- Coding experience (R, python) a plus.
- Ability to follow SOPs, while working in a clean and organized matter.
- Capable of efficiently communicating scientific results through verbal and oral platforms.
- A collaborative approach and strong critical thinking capabilities.

This is a full-time position located in West Sacramento, CA. Resumes should be e-mailed to Dr. Matthew Amicucci (mamicucci@bcdbio.com)