Metalytics, Inc.
PO Box 12496
Research Triangle Park, NC 27709
www.metalyticsbio.com

Senior Scientist/Member of Executive Team, Systems Biology
Research Triangle Park, NC, United States | Full-time

Metalytics provides critical information about cellular metabolic rates in living cells, giving our clients actionable results they can implement to accelerate research, development, and manufacturing timelines. Our technology-enabled and customized Core*MFA*™ services allow investigators to quickly and rationally engineer improved cells and/or optimize cell culture media components with applications in a diversity of industries, including biopharma and specialty chemical manufacturing, biofuels production, synthetic biology, agricultural biotechnology, and cell-based food production. As a rapidly growing company, we are seeking a motivated individual for a Senior Scientist and/or member of Executive Team position with experience in drawing scientific conclusions concerning the interactions of biochemical pathways and energetics from metabolic flux and/or metabolomic data. Experience in creating and conducting Metabolic Flux Analysis (MFA) projects is a major plus. The candidate should also have familiarity with fermentation and/or biomanufacturing to develop and apply cutting-edge Metabolic Flux Analysis. Experience with mass spectrometry-based 'omics technologies for quantifying proteins/peptides, metabolites, and lipids to guide the development of commercial strains and processes is desirable. This person will be expected to tackle a variety of challenges as an integral part of Metalytics' leadership team. The compensation for this position is competitive and will include an equity stake with the company.

Responsibilities:

Develop and optimize analytical methods for the characterization and quantification of primary metabolites, intracellular/extracellular metabolites, proteins, and lipids.
Develop MFA models and process data through these models to develop metabolic flux maps.
Analyze and interpret metabolic flux rates for client projects.
Analyze, integrate, and interpret data from multiple 'omics platforms (genomics, transcriptomics, metabolomics, proteomics, lipidomics) using bioinformatics tools and engage with other scientists and researchers to formulate hypotheses.
Optimize workflows for data acquisition, processing and analysis.

Required Qualifications:

PhD in Analytical Chemistry, Biochemistry, Chemical Engineering, Systems Biology or similar field plus 3+ years experience.
Experience in GC-MS/FID, LC- QQQ/Q-TOF, HPLC.
Experience in Metabolic Flux Analysis.
Expertise in analysis of data from multiple 'omics platforms (e.g. genomics, RNA seq, metabolomics, proteomics, lipidomics) using relevant bioinformatics tools is preferred.
Experience in R programming/Python for statistical data analysis.
Prior experience in metabolic engineering and synthetic biology is a plus.

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Preferred Working Style:

Should be a well-organized, self-motivated, quick learner who is able to handle multiple projects simultaneously.
Should have excellent laboratory skills and the ability to design and handle complex experiments and protocols.
Should be flexible with day-to-day duties and able to thrive in a start-up environment.
Must be an excellent team member with strong communication skills and a desire to work collaboratively.
Must hold himself or herself to the highest professional, scientific, and ethical standards.

Interested candidates should submit their resume/CV to careers@metalyticsbio.com

Metalytics is an Equal Opportunity Employer and we encourage all qualified individuals to apply.