

# **Lipidomics/Metabolomics Associate Specialist or Specialist**

## **Department of Botany & Plant Sciences University of California, Riverside**

The INSTITUTE FOR INTEGRATIVE GENOME BIOLOGY AT THE UNIVERSITY OF CALIFORNIA, RIVERSIDE invites applications for a fulltime Lipidomics / Metabolomics Associate Specialist or Specialist position in the Metabolomics Core Facility. Responsibilities will include methodological development of analytical techniques of targeted and untargeted lipid/metabolite extraction, separation, and detection using various mass spectrometry platforms, as well as subsequent data processing and analysis. The successful candidate will work on a range of instruments including, but not limited to, liquid chromatography coupled to time-of-flight or triple quadrupole mass spectrometry (LC-MS), gas chromatography-mass spectrometry (GC-MS) or FID detectors, and matrix assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF). The position will support researchers and clinicians within and external to the university (academic, industry, scientific instrument manufacturers).

Lab analytical instrumentation routine maintenance, daily QC and validated SOP implementation is a part of the duties.

Competitive candidates will be expected to work closely with existing metabolomics and proteomics personnel to develop and integrate data across the cores and will perform analyses that complement university, institute, or departmental initiatives in bioscience, protein structure and biophysics, genes and regulation, biomedicine and environmental sciences.

Successful applicants are required to have at least a Master's Degree or 5 or more years of experience demonstrating expertise in lipidomics/metabolomics technique development and analysis. Strong scientific skills including hypothesis generation, experiment planning, and data analysis. A strong background in mass spectrometry method development. Demonstrated experience utilizing specialized analytical techniques such as mass spectrometry-based shotgun (direct-infusion) lipidomics, liquid chromatography-mass spectrometry (LC-MS), and informatics approaches to chemical feature identification and quantification. Demonstrated experience in small molecule analysis, biological sample preparation, liquid and gas chromatography-mass spectrometry, and a high level of analytical chemistry skills, specifically with experience in the operation of mass spectrometry platforms. Ability to design and implement new analytical methods. Excellent oral and written communication skills, with the ability to communicate clearly across different fields of science including analytical chemistry, informatics, and biochemistry; ability to communicate complex information clearly and efficiently; detailed knowledge of laboratory safety. Demonstrated ability to productively and collaboratively provide service in a diverse community of faculty, post docs, coworkers, and/or students.

The most successful applicants would have the preferred qualifications of a Ph.D. in metabolomics, mass spectrometry, analytical chemistry, biochemistry, or related discipline. Experience with proteomic and/or metabolomics datasets for multi-omic data integration and analysis. Experience with high-throughput, quantitative lipid analysis is desirable. Experience with metabolite pathway analysis and fluxomics to reveal the underlying mechanism(s) responsible for the changes of lipidome/metabolome under selected condition(s) is preferred. Postdoctoral experience in a mass spectrometry related field.

Classification into the Associate Specialist or Specialist position will be determined according to the candidate's professional and academic experience at the time of hire. Candidates are encouraged to provide detail in the Statement of Research, particularly noting any experience in untargeted and/or metabolomic/lipidomic/proteomic/multi-omic technique development and analysis.

To Apply: Application materials for this position should be submitted through <https://aprecruit.ucr.edu/apply/JPF01085>. Please provide a cover letter, full curriculum vitae, Statement of Research, Statement of Contributions to Diversity, and at least three contacts for letters of recommendation.

Review of applications will begin May 1, 2019. For more information about the position, please contact Aurelia R. Espinoza (Aurelia.Espinoza@ucr.edu). For inquiries regarding the application process, please contact Eric Chong, Academic Personnel at eric.chong@ucr.edu. Additional information about the Institute for Integrative Genome Biology can be found at <http://iigb.ucr.edu>.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

Advancement through the Specialist ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.