

Research Laboratory Assistant at Mass Spectrometry Facility

Department of Chemistry, UC Irvine

Position available starting September/October for a undergraduate student laboratory assistant at the Mass Spectrometry Facility – a modern core facility laboratory that provides a broad range of mass spectrometry analytical techniques and services to the Department of Chemistry and biomedical researchers from across campus. <https://www.chem.uci.edu/~fgrun/mass-spectrometry/>

This is a unique opportunity for those who envision their future career in academic research (chemical/bioengineering/biomedical), R&D industry, or related environmental/food science/forensics or government work. The candidate will be exposed to a broad range of spectrometric analytical techniques and instrumentation relevant to the characterization of small molecule chemicals, metabolites/lipids, peptides and proteins. Under close supervision of the MSF Director and staff, the candidate will be involved in the facility's day-to-day activities and operations and receive user training on the main mass spectrometry equipment available (operation, maintenance, data analysis/software). With progress, the candidate will assist and perform basic mass spectroscopy experiments using available equipment: LC-MS, GC-MS, LC-MSMS, MALDI-TOF MS. *Individual extensive training and teaching of optics and physics principles will be provided.*

Pay rate and hours

12 hours a week (flexible schedule, general 4 hours X 3 days a week), \$12/hour

Position duties

- Perform basic user training for LC-MS (flow-ESI) and GC EI-MS
- Perform basic mass spectrometric analyses and method development: LC-MS, GC-MS, LC-QqQ and MALDI-TOF
- Perform routine instrument checks and maintenance to ensure optimal performance
- Manage basic laboratory supplies/consumables and keep the laboratory space clean.

Requirements

- Excellent communication skills, written and oral
- Completion of General Chemistry courses and labs (C or better)
- Chemistry/Physics majors or related areas.

Desired

- Work Study award
- Completion of Organic Chemistry, Chem 132B, Chem 152, Chem 153 (C or better)
- Interest in teaching/training
- Previous general exposure to mass spectrometry and its applications
- Interest in organic chemistry, analytical techniques, mass spectrometry

Training provided

The candidate will be fully educated on operating procedures as well as training requirements for spectroscopic equipment presented in the Mass Spectrometry Facility.