

Advanced Instrumentation Specialist

Job No: 496758

Position Type: full-time

Location: Lewisburg, PA

Categories: Other, Academic Affairs

The Advanced Instrumentation Specialist manages a suite of chromatography and mass spectrometry instruments that support teaching and research activities in the Department of Chemistry and across Bucknell University. Our department maintains a strong culture of teaching and research excellence where both activities are student-centered. We seek an individual who is aligned with our goals of educating students through experiential learning and supporting a departmental culture of excellence in student-focused research.

Job Duties:

Primary Responsibilities:

- operate, maintain, and manage the usage of chromatography and mass spectrometry instruments in the Department of Chemistry, notably including modern high-resolution (Orbitrap) and tandem (IM-Q-ToF) atmospheric pressure ionization mass spectrometers.
- execute and/or arrange for service and repair of instruments as needed
- train users (students and faculty) on the use of chromatography and MS instruments
- facilitate and support faculty/student research projects by applying analytical techniques available in the department
- occasionally conduct analysis of submitted samples
- provide support for technique selection and application, method development, comprehension of technical results, data interpretation, and troubleshooting
- establish and execute a data management plan for chromatography and mass spectrometry instruments
- facilitate occasional access to instrumentation for researchers from other institutions in the region
- provide support for GC, LC, and MS instrumentation use in teaching labs
- maintain availability to work with students and faculty during conventional work hours

Additional Responsibilities and Development Opportunities:

- support and maintain other analytical instruments in the Department of Chemistry, as needed
- collaborate with faculty on developing and delivering lab curricula using advanced instrumentation
- collaborate on grant-seeking to acquire and enhance departmental instrumentation
- opportunity to teach up to 1 course credit per year in an area of expertise, based on availability and interest

- engage with opportunities to attend meetings, workshops, and/or short-courses applicable to instrument maintenance, method development, relevant new techniques, data analysis, and professional development

Minimum Qualifications:

- Ph.D. in analytical chemistry or a related field, or a master's degree and at least 3 years of relevant experience
- Experience in the operation and maintenance of chromatography and mass spectrometry instruments
- Willingness to proactively engage in professional development and learn new skills
- Strong organizational abilities
- Strong interpersonal and communication skills
- Enthusiasm for engaging with Bucknell's commitment to teaching, learning, and scholarship
- Ability to foster a productive and cooperative environment with the goal of providing exceptional educational opportunities through experiential learning
- Ability to work collaboratively with a diverse community of faculty, lab directors, students, and staff.
- Ability to read and understand chemical safety and hygiene plans

Preferred Qualifications:

- Experience with the following techniques and associated software packages: ion mobility/mass spectrometry, Agilent LC/Q-ToF, Thermo Scientific LC/Orbitrap, Advion MS, Agilent GC/MS with thermal desorption, Agilent HPLC, and Agilent GC
- Experience with additional analytical instruments and techniques (e.g., UV-Vis, fluorescence, FT-IR, autotitrators)
- Facility with electronic equipment, power tools, and hand tools

Physical Demands:

This position may involve lifting objects of 25 lbs, and may occasionally involve lifting objects weighing 50 lbs.

Work Type:

full-time

About the Department of Chemistry:

The Department of Chemistry at Bucknell University is composed of 15 tenure-track faculty and 7 staff, offering Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science degree programs. Educational and scholarly activities are student-centered, with a strong focus on undergraduate research. Chemistry faculty and students routinely work together on projects published in the peer-reviewed literature, and faculty have a long record of success in competitive grant-seeking from various extramural sources, including the National Science Foundation, National Institutes of Health, National Aeronautics and Space Administration, ACS Petroleum Research Fund, and private foundations. The Department maintains an extensive suite of chemical instrumentation used for both teaching and research activities

(<https://www.bucknell.edu/academics/college-arts-sciences/academic-departments-programs/chemistry/labs-learning-spaces/equipment> on which undergraduate students are trained and are encouraged to use in their course-based and research projects.

To apply, visit <https://apptrkr.com/2354504>

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