Bucknell University is seeking an Instrumentation Director to interact with students, faculty, and staff in support of educational and research projects that involve chromatography and mass spectrometry. Based in the Department of Chemistry, this position interfaces with individuals across Bucknell’s campus and from other institutions in our region. The Chemistry 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 maintaining a high level of departmental research productivity through managing our substantial chemical analysis equipment assets.

Chemistry Department Equipment: https://www.bucknell.edu/academics/college-arts-sciences/academic-departments-programs/chemistry/labs-learning-spaces

Job Duties:
- operate, maintain, and manage the usage of chromatography and mass spectrometry research instruments in the Chemistry Department with minimal supervision
- proactively ensure high uptimes within specified performance for departmental research instrumentation, particularly with chromatography and mass spectrometry equipment
- establish standard practices and norms for use and upkeep of chromatography and mass spectrometry instruments by students, faculty, and staff in order to enable consistent, research-grade measurements and maximize instrument lifetime
- support faculty/student research projects that involve the use of departmental instrumentation and provide advice to users on instrument usage in accordance with their project
- perform and/or mentor users on analytical method development and data interpretation as needed in support of research and experiential learning
- train users (students, faculty and staff) on the use of chromatography and MS instruments for research, teaching, and experiential learning applications
- execute and/or arrange for service and repair of instruments as needed and maintain a working relationship with representatives from various vendors
- occasionally conduct analysis of submitted samples
- collaborate with faculty on developing and delivering curricula that leverage advanced instrumentation, including the use of instruments during teaching laboratory sessions
- establish and execute a data management plan for chromatography and mass spectrometry instruments, including records of instrument performance, maintenance, and updates
- facilitate occasional access to instrumentation for researchers from other institutions in the region
- maintain availability to work with students and faculty during conventional work hours
- ensure a safe work environment in instrumentation laboratories, including safety protocols for the use of chromatography and mass spectrometry instrumentation

Additional Responsibilities and Development Opportunities:
- support and maintain other analytical instruments in the Department of Chemistry, as needed
- collaborate on grant-seeking to acquire and enhance departmental instrumentation
- 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:
● Bachelor's degree in chemistry (or related field) plus 2 years of relevant experience
● Experience with the fundamental principles, operation, and maintenance of liquid chromatography/mass spectrometry (LC-MS) and/or gas chromatography/mass spectrometry (GC-MS) instruments
● Willingness to proactively engage in professional development and learning 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 high-resolution Agilent LC/Q-ToF and/or ThermoFisher Scientific LC/Orbitrap, Advion CMS, Agilent GC/MS, Agilent HPLC, and Agilent GC instruments and software packages
● Advanced degree (Master's or Doctorate) in chemistry or a related discipline
● Experience with advanced mass spectrometry data analysis, including open-source platforms
● Experience with additional analytical instruments and techniques (e.g., UV-Visible spectrophotometry, fluorescence, FT-IR spectroscopy, circular dichroism, autotitratrators)
● Facility with electronic test 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:**
This is a full-time, 12-month, exempt, benefits eligible position.

To apply, visit [https://apptrkr.com/2920623](https://apptrkr.com/2920623)