

Process Engineer, Shared Instrumentation Laboratories
University at Buffalo, The State University of New York

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Posted Oct. 4, 2023, set to expire Aug. 4, 2024

Job Title	Process Engineer, Shared Instrumentation Laboratories
Department	SEAS Shared Instrumentation Laboratories
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Oct. 4, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor Professor
Academic Field(s)	Physics - General Sciences - General
Job Website	https://www.ubjobs.buffalo.edu/postings/45641

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Job Description

The [Shared Instrumentation Laboratories](#) at the University at Buffalo is seeking to hire an Assistant Professor of Research to serve as a **Process Engineer**. The Process Engineer will be responsible for providing technical and operational support to the to the University at Buffalo Shared Instrumentation Laboratories (SIL), specifically its Furnas Hall Materials Characterization Laboratory (MCL) and Davis Hall Cleanroom (CRM). SIL is operated by UB's School of Engineering and Applied Sciences.

Candidates must be highly-organized self-starters with strict attention to detail and demonstrated ability to work as part of a team and independently with minimal supervision in a fast-paced, highly-flexible, customer-focused environment. Position involves execution of a large number and variety of tasks,

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while ensuring accuracy and high quality of resulting deliverables, and completion within a reasonable time frame. It requires sound judgement, diplomacy, interpersonal skills, and a high-level of professionalism in interactions with university, school/college and departmental leadership, faculty, staff and students, as well as external collaborators in academia, business, industry and government. Also requires strong communication (written, oral, inter-personal) and computer skills (Microsoft Office suite of products: Word, PowerPoint, Excel, Access, Outlook), and aptitude to learn new applications.

Responsibilities include:

- General Laboratory Operations:
 - assist in ensuring effective management of Cleanroom and MCL technical operations, inspiring high standards of client and research support services;
- Technical Support: continuous development of a technical knowledge and proficiency in the operation of laboratory equipment for the purposes of:
 - providing equipment training of university personnel and external customers in the operation of various materials characterization and cleanroom instruments and techniques;
 - assisting in maintenance and troubleshooting of laboratory instruments, including associated computer hardware and software;
 - interacting with equipment manufacturers' service personnel for repair services as needed;
 - maintaining an inventory of equipment accessories and lab consumables;
 - assisting in installation of new equipment;
 - assisting in development of standard operating procedures (SOPs) for new equipment and updating SOPs for existing equipment;
 - collaboration with laboratory personnel to best ensure uptime of equipment in support of the university's research and education missions;
- Chemical Waste Storage & Disposal: monitor storage and disposal of chemical waste in compliance with all local, state and federal requirements;
- Customer Service:
 - providing timely, responsive and courteous technical consultation and assistance to both internal and external customers of the facility;
 - assist with scheduling, monitoring and recording of instrument use, as needed;
- Technical & Analytical Services:
 - providing analytical services for samples submitted by internal and external customers, and appropriate communication with those customers, both to determine their needs and to provide expected deliverables;
 - development of instrument applications and operation modules to increase productivity and expand instrument use;
- Additional Duties: various administrative duties related to lab operations, as needed.

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Outstanding Benefits Package

Working at UB comes with benefits that exceed salary alone. There are personal rewards including comprehensive health and retirement plan options. We also focus on creating and sustaining a healthy mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. Visit our benefits website to learn about our [benefit packages](#).

About the Furnas Hall Materials Characterization Laboratory

The MCL is a shared-use facility that provides resources needed to analyze liquid, powder, surface and bulk materials. It currently includes equipment for powder x-ray diffraction (XRD), Raman microscope, UV-VIS-NIR and Fluorescence Spectrophotometers, inductively-coupled plasma/optical emission spectroscopy (ICP-OES) for elemental analysis, thermogravimetric analysis (TGA), differential scanning calorimetry (DSC), porosimeter for nitrogen physisorption (BET), atomic force microscopy (AFM), AFM-based nanoindentation tool, physical properties measurement system (PPMS), fume hoods and freeze dryer for sample preparation, and analytical chemistry related equipment.

About the Davis Hall Cleanroom

The Cleanroom is a shared-use facility featuring Class 1000 space, and is well-equipped for electronic device research, processing and development, materials characterization, micro- and nanofabrication and other processes. It includes more than 30 scientific tools and instruments with capabilities for deposition, e-beam and focused-ion-beam lithography, etching, metrology & microscopy, photolithography, sample preparation, thermal processing and analysis, and wafer bonding.

About The University at Buffalo

The University at Buffalo (UB) #ubuffalo is one of America's leading public research universities and a flagship of the State University of New York system, recognized for our excellence and our impact. UB is a premier, research-intensive public university dedicated to academic excellence. Our research, creative activity and people positively impact the world. Like the city we call home, UB is distinguished by a culture of resilient optimism, resourceful thinking and pragmatic dreaming that enables us to reach others every day. Visit our website to learn more about the [University at Buffalo](#).

University at Buffalo is an affirmative action/equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.

Contact Information

Please reference Academickeys in your cover letter when



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applying for or inquiring about this job announcement.

Contact

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