

Research Associate | NUANCE Center, NUFAB Facility
Northwestern University – Evanston, Illinois

A full-time permanent Research Associate position is immediately available in Northwestern University's Atomic and Nanoscale Characterization Experimental ([NUANCE](#)) Center within its preeminent and growing NUFAB cleanroom facility. The position provides the selected candidate with opportunities to develop professionally and contribute in many ways, including managing a suite of microfabrication tools; training and assisting graduate students, postdoctoral scholars, and external facility users; and developing new processes on those tools. The successful candidate will develop a career path at Northwestern University in a position that enables research proposal submission, management of equipment acquisition and/or development projects, and mentoring students and postdoctoral scholars working on those projects.

Duties of the Position: The Research Associate will be responsible for assisting internal and external users of the facility with equipment training and operation, process support, and safe facility operations. Responsibilities include teaching safety and cleanroom protocols; writing and updating standard operating procedures (SOPs); training users on microfabrication and characterization equipment; developing new processes; performing equipment installation, maintenance, and repair; providing safety oversight and support; performing microfabrication for funded projects; and carrying out other duties as assigned.

Requisite Skills: Experience working in a cleanroom environment is required. The preferred candidate will have demonstrated expertise in [microfabrication equipment](#) and process development. Equipment experience will include a fundamental understanding of operational principles, as well as experience with installation, modification, troubleshooting, maintenance, and repair. Process experience will include work on both microfabrication and characterization tools. The candidate must demonstrate the ability to provide hands-on training in microfabrication and characterization equipment and must have experience in chemical safety and cleanroom equipment safety.

The successful candidate will be customer-oriented and committed to developing an informed and well-trained user base in advanced cleanroom capabilities through hands-on training and ongoing technical assistance. They will participate in the creation of short courses, seminars, and presentations to promote awareness of existing and future cleanroom capabilities, and will contribute to overall facility development and the improvement of NUFAB operations, with a focus on enhancing Northwestern's scholarly activities.

Required Qualifications:

- Ph.D. in Engineering or a scientific discipline, with a background in MEMS or semiconductor micro-/nanofabrication and hands-on process development and equipment experience.
- Demonstrated strong motivation, ambition, and passion for academic research, teaching, grant writing, and curriculum development.
- Strong experimental skills and an exemplary publication record.
- Excellent communication and writing skills.
- One or more years of postdoctoral experience in an academic or industrial cleanroom environment is preferred.

Northwestern is proud to provide meaningful, competitive, high-quality health care plans, retirement benefits, tuition discounts and more. See details at: <https://www.northwestern.edu/hr/benefits/index.html>.

Candidates will send CV, 3 references, and a brief research statement (as single PDF) to:
NUFAB@northwestern.edu

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