



Permanent Research Associate Position in NUFAB

Northwestern University Micro/Nano Fabrication Facility ([NUFAB](#)) is seeking qualified and motivated applicants to work in its new multimillion dollar, state-of-the-art 6000 ft² cleanroom facility. As a member of the Soft and Hybrid Nanoscale Experimental ([SHyNE](#)) Resource, a node of the [NSF](#)'s National Nanotechnology Coordinated Infrastructure ([NNCI](#)) and Northwestern's recent recruitment of world-renowned microfabrication faculty, NUFAB is going through a phenomenal growth phase. Under direction of Northwestern's Atomic and Nanoscale Characterization and Experimental ([NUANCE](#)) Center and in close association with the Simpson Querrey Institute ([SQI](#)) and The International Institute of Nanotechnology ([IIN](#)), NUFAB expects to continue to lead the Midwest region in micro- and nanofabrication discoveries and development.

The selected candidate will have the opportunity to develop professionally and contribute in many ways, including: developing processes on newly acquired microfabrication equipment, training and assisting graduate students, post-docs, and external users of the facility, and interacting with the NUFAB staff and faculty. The successful candidate will develop a career path at Northwestern University with the possibility of becoming research faculty, a position that will enable submission and management of equipment acquisition and/or development projects, as well as mentoring of students and post-docs working under those projects.

Skills: The preferred candidate will have demonstrated expertise in microfabrication equipment as well as process development. The equipment experience should include fundamental understanding of the principles of the equipment operation, experience of equipment modification, troubleshooting, maintenance, and repair. The process experience should be on both microfabrication and characterization tools. Experience working in cleanroom environment is also required. The candidate will have demonstrated the ability to provide hands-on training for microfabrication and characterization equipment. The candidate will have demonstrated experience in chemical and cleanroom equipment safety. The successful candidate will be customer-oriented and will contribute towards improving the operation of the facility.

Duties: The research associate will be responsible for assisting internal and external users of the facility with equipment training and use, process support, and safe operation of the facility. This includes teaching safety and cleanroom protocol, writing and updating standard operating procedures (SOPs), training users on microfabrication and characterization equipment, developing new processes, performing equipment installations/maintenance/repair, providing safety oversight and support, performing microfabrication for funded projects and other duties as assigned.

Qualifications: Ph.D. degree in Engineering or Science with background in MEMS or semiconductor micro/nano fabrication and hands-on process development and equipment experience. Candidates with M.S. degree plus several years of suitable experience may also be considered.

Please email CV and Research Statement (1 page) to: nufab@northwestern.edu