



Rensselaer

Micro Nano-fabrication Clean Room Openings

Rensselaer Polytechnic Institute's [Center for Materials, Devices and Integrated Systems \(cMDIS\)](#) seeks applicants to fill two positions in its Micro Nano-fabrication Clean Room (MNCR).

Microelectronics Design & Process Engineer

VIEW COMPLETE DETAILS and APPLY ONLINE at <https://rpijobs.rpi.edu/postings/2027>

The Microelectronics Design & Process Engineer will advance the state of the art integrated circuit processing capabilities in the cMDIS and to assist, instruct and advise facility users in order to enable them to achieve their research and teaching objectives. Candidates are expected to have a Bachelor's Degree in Electrical Engineering or a related field, along with Five (5) years of experience in integrated circuit design, semiconductor device fabrication and characterization, process development and process integration. Experience with and knowledge of the operation and maintenance of a clean room facility supporting processing of semiconductor and/or other advance materials, especially tools and baseline processes is also expected. Candidates with a Master's Degree with a concentration in microelectronics or nano-electronics are especially encouraged to apply, as are individuals with industrial experience with wafer or device fabrication, and experience with device and process simulation. Candidates must have detailed knowledge of semiconductor device processing and device physics, the ability to operate and maintain sophisticated semiconductor processing equipment, and the ability to establish and maintain processes on semiconductor tool.

Sr. Applications Engineer

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The Sr. Applications Engineer provides leadership in applications development on advanced analytical equipment, particularly electron and ion beam based systems, within the cMDIS. This includes operation, maintenance, and support of a suite of tools including electron microscopes, focused ion beam instruments, and atomic force microscopy. The incumbent provides high quality instruction on the operation and theory of such tools to students, faculty and off-campus users to aid in their implementation and execution of microscopy-based research and teaching. Candidates must have a Bachelor's Degree in Electrical Engineering, Mechanical Engineering, Material Science, Physics, Biology or a related field, as well as five (5) or more years of relevant experience, to include expertise in the utilization of electron microscopy and focused ion beam instruments and techniques. A background in providing instruction to users is required. Candidates with an advanced degree are especially desired, as are those with experience in material/process characterization and process development. Candidates will require an in-depth knowledge of operation of cutting-edge micro- and nano-electronic processing and characterization tools, the ability to develop and maintain processes on such tools, and the ability to work with vendors to maintain existing equipment base and bring up first-of-its-kind research tools. Excellent electronics, mechanical, and computer programming skills are a must.

Please visit <http://research.rpi.edu/cmdis> for information about our research and facilities.

Rensselaer employees enjoy a competitive compensation package, including exceptional benefits and retirement plans, professional growth and development, a technologically advanced work environment, and continuing educational opportunities.

For more information about this opening or the application process, contact Kathy McNamara at mcnamk@rpi.edu

We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic perspectives to Rensselaer's work and campus communities.

Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.