**Position Title: Classroom Scientist/Engineer (Research Associate) – Nanofabrication Facility - CUNY Advanced Science Research Center**

**Job ID: 26887**

**Compensation: $75,00-$95,000/year. Commensurate with qualifications and experience**

**Closing Date: Open until filled**

The Advanced Science Research Center at The Graduate Center of the City University of New York (CUNY ASRC) elevates scientific research and education at CUNY and beyond through initiatives in five distinctive, but increasingly interconnected disciplines: environmental sciences, nanoscience, neuroscience, photonics, and structural biology. The CUNY ASRC promotes a collaborative, interdisciplinary research culture with renowned researchers from each of the initiatives working side-by-side with undergraduate and graduate students in the ASRC labs and core facilities, sharing equipment that is among the most advanced available. The CUNY ASRC also invites and collaborates with researchers from all CUNY campuses to take advantage of its facilities and resources to advance interdisciplinary scientific research across the University. Importantly, the CUNY ASRC also engages in K-16+ STEM education, including pipeline programs, workforce development, and outreach to the public to promote science literacy, engagement, and empowerment and advance science-based policy and STEM education in partnership with local public schools, community groups, and CUNY community and senior colleges. To learn more about the CUNY ASRC, visit https://asrc.gc.cuny.edu/.

The CUNY ASRC Nanofabrication Core Facility (NanoFab) invites applications for a full-time Cleanroom Scientist/Engineer. This position is responsible for process related work on a variety of micro/nano fabrication process equipment including tools for e-beam and photolithography, etching, deposition, wet chemical processing, metrology, and back-end processing. This position reports to the Nanofabrication Facility Core Director.

This position requires the incumbent to work onsite.

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| Duties include but are not limited to:* Acting as a technical liaison to Nanofab users with the goal of aiding them in successfully completing their research projects.
* Assisting Nanofab users in process related troubleshooting and developing new processes to add to a process recipe database.
* Write progress reports, document recipes and data and publish findings.
* Collaborate with internal and external Principal Investigators’, graduate students and junior scientists on research projects related to nanoscience, photonics, materials science, and nanofabrication.
* Training and qualifying users on lab procedures, research methodology, lab safety, existing processes and equipment.
* Assisting in the development of standard operating procedures and best-known methods for the safety of users and equipment.
* Calibrating and qualifying processes and process equipment.
* Developing and instituting equipment maintenance and monitoring procedures.
* Repairing and maintaining various tools in the Nanofab, as well as the modification, upgrade, and development of tools.
* Documenting process performance, tool performance, and lab procedures.
* Working with industrial partners to generate new research projects between industry and the Nanofabrication Facility.
* Providing technical direction to other research staff, engineering associates, technicians, and/or students; facilitating workshops and demonstrations on research methods.
* Developing research plans and proposals and participating in acquiring funding.
* Performs other duties as assigned which are reasonably within the scope of this job classification.
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**General Duties:**

- Conducts academic research in connection with CUNY programs; may assist faculty, staff, and students in conducting research and lead research efforts involving others.

- Develops research plans and proposals and participates in acquiring funding

- Collects, analyzes, and assures validity of data

- Writes progress reports; writes and publishes findings

- Collaborates with internal and external colleagues

- Adheres to standards for safety and hygiene and ethical conduct as defined by the University and relevant outside parties

**Minimum Qualifications:**

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| Doctoral Degree in a related field and demonstrated research ability. |  |

**Other Qualifications:**

The incumbent has to be able to work onsite Monday-Friday.

A preferred candidate should have:

* PhD in Science or Engineering with demonstrated research experience in micro/nano-fabrication.
* 5+ years of experience working in micro/nanofabrication at an academic or industrial research laboratory
* Experience in process development and troubleshooting; data analysis, CAD software, and device design experience.
* Demonstrated aptitude for operating complex equipment.
* Ability to execute complex processes, carefully following written procedures with great attention to detail.
* Experience in laboratory settings and a multiuser environment.
* Python programming skills are a plus.
* Excellent organization, planning and oral/written communication skills.
* Meticulous record-keeping and data analysis/interpretation abilities.
* Ability to safely work with hazardous materials.
* Ability to work in a collaborative manner, to assist in identifying any challenges or barriers.
* Familiarity with a broad range of micro/nanofabrication and semiconductor processing equipment.
* Hands-on experience in one or more process areas, including thin-film deposition, wet and dry etching, photolithography and e-beam lithography.

Physical Requirements

* Must be able to work in cleanroom, chemical, and measurement laboratory environments.
* Will work around compressed gasses, acids, solvents, vacuum pump oils, and other chemicals.

## **BENEFITS**

CUNY offers a comprehensive benefits package to employees and eligible dependents based on job title and classification. Employees are also offered pension and Tax-Deferred Savings Plans. Part-time employees must meet a weekly or semester work hour criteria to be eligible for health benefits. Health benefits are also extended to retirees who meet the eligibility criteria.

IMPORTANT NOTICE: Health Plan Coverage for Employees Hired on or after October 1, 2022 City of New York employees and employees of Participating Employers and their eligible dependents hired on or after October 1, 2022 will only be eligible to enroll in the EmblemHealth HIP HMO Preferred Plan and must remain in the HIP HMO Preferred Plan for the first year (365 days) of employment.

After 365 days of employment, the employee will have the option of either remaining in the HIP HMO Preferred Plan or selecting a different health plan within 30 days before the end of the 365th day period.

If a new health plan is selected, the new plan will be effective on the 366th day.

Only after the 365th day can the employee participate in any Annual Fall Transfer Period. An employee who needs to request an exemption from the required enrollment in the HIP HMO Preferred Plan can do so by submitting a HIP HMO Opt-Out Request Form to EmblemHealth. An employee, or eligible dependent, must meet certain criteria and the request must be approved by EmblemHealth before the exemption is granted. The HIP HMO Opt-Out Request Form and HIP service area are available on the EmblemHealth website.

## **HOW TO APPLY**

Go to <http://cuny.jobs/> and search for Job ID 26887.

Click on "Apply Now" which will bring you to the registration screen. If you are a new user, you must register to apply. If you already have a user ID, please use your existing ID to apply. Make sure to upload a cover letter, resume, and contact information for three (3) professional references (name, title, and organization). Please upload all documents in Word or PDF format as one file.

## **EQUAL EMPLOYMENT OPPORTUNITY**

CUNY encourages people with disabilities, minorities, veterans and women to apply.  At CUNY, Italian Americans are also included among our protected groups.  Applicants and employees will not be discriminated against on the basis of any legally protected category, including sexual orientation or gender identity. EEO/AA/Vet/Disability Employer.