

The Center for Nanoscale Systems (CNS) at Harvard University seeks an enthusiastic, scientifically curious individual with a strong growth mindset to work within the Imaging and Analysis Group as a Scientist focused primarily on teaching and supporting researchers about microfluidic device fabrication and cell culture techniques.

Job-Specific Responsibilities

CNS is an open, shared-use facility that serves all of Harvard as well as external academic and industrial users. CNS typically supports more than 1,700 users annually. Working under the supervision of the Imaging and Analysis Facility Manager, and in coordination with the other Imaging and Analysis staff at CNS, this person will assist in the day-to-day operation of the soft lithography fabrication laboratory at the Science and Engineering Complex in Allston, MA the soft lithography fabrication laboratory and the cell culture laboratory both in the Laboratory for Science and Engineering Cambridge, MA.

Day to day operations of these labs include teaching users safe and correct tool operation and working with users on experimental design, device design, sample preparation, data analysis, and data interpretation.

The candidate should be excited about teaching and assisting researchers in their scientific endeavors. The mission of this position is to enable and support other researchers' scientific and engineering endeavors. Strong teaching and interpersonal skills, e.g. approachability, patience, adaptability, confidence, ability to provide clear and concise explanations of complicated concepts, creativity, critical thinking, etc. are essential for this position.

There is also a fair component of equipment maintenance, equipment trouble shooting, and general shared use lab management in the day-to-day operations of these labs.

The candidate needs to be comfortable in a dynamic and fast paced environment assisting users on a wide variety of different types of projects from all across the range of biological and physical sciences. The candidate must have the willingness and the ability to quickly become an expert on a variety of topics. Being a science generalist is key to success in this position.

The incumbent will become resource for the CNS scientific community and must have strong written and verbal communication skills to convey information effectively and efficiently.

The candidate will also on occasion perform work for remote CNS users. Detailed record keeping of instrument activity, experimental results, maintenance, and repair logs, and authoring of standard operating procedures is expected.

Basic Qualifications

Bachelor's degree in chemistry, applied physics, materials science and engineering, or equivalent experience.

Experience in the operation of microfluidic device fabrication, cell culture techniques, and in general lab management.

Additional Qualifications and Skills

- The candidate should be self-motivated and able to work independently with a strong desire to acquire on-the-job training, to succeed, and to develop intellectual, and practical professional skills.
- Excellent verbal and written skills required.
- Demonstrated ability to work well in teams and with graduate and undergraduate students is essential.
- The candidate must have significant experience in a variety of laboratory environments and be fully comfortable working in a lab environment on a wide variety of tools and projects.
- Expertise in microfluidic device design and fabrication.
- Expertise in aseptic techniques for cell culturing.
- Familiarity with rapid prototyping such as laser cutting and 3D printing.
- Familiarity with safe handling of nanoparticles
- Familiarity with gas adsorption for surface area and porosity measurements, and chemisorption and dynamic adsorption studies for characterizing active surfaces.
- Familiarity with of fluorescence plate readers, dynamic light scattering (DLS) measurements, zeta potential measurements, freeze dryers, ball mills, stylus profilers, optical microscopes.

Physical Requirements

Must be able to work in an imaging facility, cleanroom, biological, chemical, and characterization laboratory environments.

Will work around compressed gases, cryogenics, ovens, acids, bases, oxidizers, solvents, vacuum pump oils, and other chemicals. Must be very dexterous; may be required to work on large and small assemblies.

Ability to lift 50 lbs on occasion.

Additional Information

This work is performed on campus in Cambridge, MA

COVID Vaccine Policy

Harvard will require COVID vaccination for all Harvard community members. Individuals may claim exemption from the vaccination requirement for medical or religious reasons. More information regarding the University's COVID vaccination requirement and exceptions may be

found at the University's "COVID-19 Vaccine Information"
webpage:<http://www.harvard.edu/coronavirus/covid-19-vaccine-information/>.

Apply Here: <https://www.click2apply.net/4eYoyQCLwLWbLA1IV81X>

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