

NANOFABRICATION FACILITY

ADVANCED SCIENCE RESEARCH CENTER



August 14, 2024

Hello Nanofab Users and Pls:

Here are the ASRC Nanofabrication Facility updates for August:

Research Showcase Day -- Registration Open!

[Sign up now](#) to attend the inaugural ASRC Nanofabrication Facility Research Showcase Day on **October 17th, 2024**. This is a day for connection, collaboration, celebration and learning. Learn about the research that your fellow labmates are working on, and present what you are doing as well.

We will have invited talks by speakers from CUNY, NYU, Columbia, and Cornell. We will also have sessions dedicated to presentations by ASRC Nanofab users. We encourage all students, postdocs and industry users to submit abstracts for posters along with a research report that will be published both online and in print. This submission will get you a promo code to waive the admission fee for the event, and you may be selected to give a talk or win one of several awards for best poster or best talk. Use the links below to register and submit abstracts/reports.

- [Register here on Eventbrite](#)
- [Submit a poster or research report \(or both!\)](#)
- [Nanofabrication Facility Research Showcase Day Website](#)

Opening for Lab Technician

We have an opening for a lab technician. If you know of anyone with a bachelor's degree who would like to work in a Nanofab facility helping to maintain tools and help users, please [direct them to apply here](#).

Elionix 100keV

The Gun change began last Monday and is going well. We expect this annual maintenance to be completed around August 26th. We will update here and on Slack. Meanwhile the 50keV tool is online and available for use.

Oxford PECVD Reservation Policy Update

To be able to make certain that all users have access to the tool when they need it, we will be changing the reservation policies on the tool. Tool users will receive emails directly regarding those changes along with information about their reservation efficiency. It is very important to only reserve time that you will be using, and if you have a change in schedule to make changes to your reservation 24 hours in advance. If you are not able to do this, you should notify staff and other users in the PECVD Slack Channel.

Metal E-beam Evaporator | Material Change

- Thursday August 15th, there will be a material change.
- Nickel (Ni) and Platinum (Pt) will be removed. Aluminum Oxide (Al_2O_3) will be taken out and Germanium (Ge) will go in.
- The tool will go back online after pumping down on Friday evening, August 16th.

Organic Evaporator | Offline

The location of the leak has been identified and we are waiting for repair parts from the manufacturer. Please use the metal evaporator in the interim, and notify staff if you need materials that are not currently in the tool. We will keep users updated on Slack.

AJA Sputter Deposition

The Gauge controller is being sent out for repair.. If you need to use the sputter tool, please contact Salam Elhalabi (selhalabi@gc.cuny.edu) directly as we can swap in a gauge controller from another tool so that your work can be completed.

Oxford ICP-Chlorine Etcher

In this hot and humid weather, please take extra care to make sure table temperature is set to 20C when you are done with the tool

Oxford ICP-Fluorine Etcher | Upgrade

The scheduled PLC Upgrade is underway, we expect the tool to be down for up to 3 weeks while the engineers are onsite doing the reprogramming. After this, all users will need to be retrained and re-qualified on the new software. Stay tuned for new training session announcements. This PLC upgrade will provide more reliable tool performance in future.

Oxford RIE Etcher

The PLC upgrade has been completed and recipes are now being programmed and tested. As there is a new upgraded software interface, users will need to be retrained and requalified. Stay tuned for announcements on the retraining schedule next week. In the meantime, if you need to use the tool, please contact Emma (eanguillare@gc.cuny.edu) and she will help you to get your process done. This PLC upgrade has been done to provide more reliable tool performance in future.

Acknowledgements

Please remember to acknowledge the ASRC nanofabrication facility in your publication and let us know about exciting and new publications that utilize devices made in the facility.

This concludes the ASRC Nanofab updates for August 14th, 2024. Have a great remainder of the week!

Nanofab Staff