The CNSI Innovation Workshop is comprised of the **main facilities in Elings 3430** and the **machining hub in Elings 2442**. The Innovation Workshop is used by a wide group of students, staff, and external users in order to reach their fabrication goals. We have 3D Printers, a laser cutter and traditional machine tools in addition to a variety of more specialized tools, such as polymer casting equipment for PDMS microfluidics and our custom CNC glass/silicon cutter.

This Wiki has information about: becoming a workshop user; safety, reference, and training information for the workshop tools; Standard Operating Procedures (SOPs); chemical safety references; and other generally useful reference material for working productively in the CNSI Workshops.

Workshop wizards are undergraduate students who maintain the labs, provide training to users, design new tools, and build parts for users. Dr. Brian Dincau is the workshop manager. Please feel free to contact any of us with questions or ideas that you want to discuss.

Lab Announcements

02/11/2025

As some of you may know, we recently installed a **new laser cutter.** It's much more powerful than the Trotec, with a larger bed as well. This means it can cut a much wider range of materials. You can learn more about the new laser cutter here

We are currently phasing out the old Trotec. If you need to laser cut, please request training on the new laser cutter asap. **The Trotec will no longer be available for regular use.** You can find the training request form below the announcements.

01/13/2025

The CrystalMark is currently down. We are waiting for some replacement parts before we continue troubleshooting. The tool has also been moved to the back of the room, to make space for a new laser cutter.

Update from 2/11/25 - still no luck. We've troubleshot the tool quite a bit and are taking a break for now to focus on other lab tasks. If you are deeply concerned with the status of the CrystalMark, please contact the lab manager.

12/05/2024
Winter Mega Announcement

There will be **no training offered from 12/20/24 through 01/06/25.** Additionally, training will be extremely limited from 12/9/24 through 12/20/24 due to limited Workshop Wizard availability.

Elings Hall will be closed to those without swipe access from 12/20 through 01/06. During this time, there will be **intermittent DI Water and Exhaust work, preventing safe use of the fume hoods.** Please take this time for vacation, data analysis, or other activities that do not require lab use.

We are currently experiencing some waterjet issues. The pinch valve that controls abrasive flow is cracked. We are working on a fix, but it may require some replacement parts. **ETA for new parts is Tuesday 12/17**

Happy holidays and see you next year!! □□□

Hotlinks for Submissions and Requests

Job Submission Google Form
The job submission form allows you to upload files or request correspondence to get a part made by our workshop wizards.

Training Request Google Form
The training request form includes the new user orientation, which is required to become a user of these labs.

Access to the Workshops
Please visit this page for information about becoming a new user and gaining card-key access to the labs.

Contact Information

Please reach out to Brian and/or the workshop wizards with questions or concerns about the lab and its tools!

Lab Manager

Brian Dincau: Elings 3217; bdincau@ucsb.edu; (805) 724-0426

Workshop Wizards

Yanis: yanis@ucsb.edu

Rachel: rylin@ucsb.edu

Colin: ckwok520@ucsb.edu

Jason: jwei@ucsb.edu

Remy: remywong@ucsb.edu

Kenneth: kennethkho@ucsb.edu

Elaina: epace@ucsb.edu

Grace : grace_zhang@ucsb.edu

Flynn: flynnirvine@ucsb.edu (In Edinburgh until Winter quarter)

Feedback

Microfluidics Lab & Innovation Workshop Feedback Form