The CNSI Workshops are comprised of the **Microfluidics Lab in 3430 Elings Hall** and the **Innovation Workshop in 2442 & 2448 Elings Hall**. The Microfluidics Lab is used primarily by researchers building microfluidic devices, while the Innovation Workshop has a broader set of users including students, staff, and faculty who need access to a more traditional makerspace. Follow the links in the sidebar to explore the capability of the labs and to learn how to become a user.

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

10/20/23

We are ready to offer training on our waterjet cutter. We will be limiting class sizes to two users per week, so please only request training if you expect to use the tool within a month or less.

In our experience so far, it's a good tool for cutting materials which are 1/8“ (3mm) or less, especially thin materials like sheet metal and carbon fiber. Sign up for training using the Training Request Form linked below.

10/06/23

We now have a Microfluidics Lab & Innovation Workshop Feedback Form! Please use this form to let us know how we are doing, as well as provide suggestions for potential new tools or procedures.

09/18/23

We have redesigned our silanization chamber. The new chamber features polymer valves and fittings which should not corrode like the stainless steel fittings used in the previous chamber. The silane agent is also stored in a sealed glass container now, so we can easily see when it is running low. Please take a moment to review the new SOP before using the tool. Report any issue to the lab manager, and note them in the log book.

09/11/23

The Trotec **laser cutter has been restored,** and may now be used again. After a thorough cleaning, we replaced the honeycomb bed and airjet lines. We also performed a few routine test cuts to make sure that the lens and positional accuracy were not affected.

06/01/23

Have you ever wondered **which resin printer is best for your application?** Check out our new little study - Resolution Limits and Print Quality for Resin Printers , where we compare the resolution limits of our Objet30 and Form3 printers.

03/22/2023

Starting April 1st, a reservation will be required for any and all lab use. Recharge will no longer be tied to door swipes, thus your compliance will be essential for accurate usage tracking and billing. If you are unfamiliar with making reservations in FBS, please see our tutorial and contact bdincau@ucsb with any questions or concerns.

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

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Workshop Wizards

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Feedback

Microfluidics Lab & Innovation Workshop Feedback Form