

The Collaborative Crystallography Program

Through the NIH Funded Collaborative Crystallography Program (CC) at the Advanced Light Source (ALS), scientists can send protein crystals to Berkeley Center for Structural Biology (BCSB) staff researchers for data collection and analysis. The CC Program can provide a number of benefits to researchers:

- Obtain high quality data and analysis through collaborating with expert
- Beamline researchers;
- Rapid turn around on projects; and
- Reduced travel costs.

To apply, please submit a proposal through the ALS General User proposal review process for beamtime allocation. Proposals are reviewed and ranked by the Proposal Study Panel, and beamtime is allocated accordingly. BCSB staff schedule the CC projects on Beamlines 5.0.1, 8.2.1, 8.2.2 and 4.2.2 to fit into the available resources. Only non-proprietary projects will be accepted. As a condition of participation, BCSB staff researchers who participate in data collection and/or analysis must be appropriately acknowledged - typically being included as authors on publications and in PDB depositions.

How To Apply:

For submitting GU proposal please go to <https://alshub.als.lbl.gov/> . If you do not already have an ALSHub account, you will need to create an account using your ORCID number.

While submitting GU proposal please select beamlines under ALS-ENABLE tab. Choose either 5.0.1, 5.0.2, 8.2.1, 8.2.2, or 4.2.2.

Enter your proposal information, with attention to the following details:

- Select "5.0.1 for Monochromatic" OR
- Select "5.0.2 , 8.2.1, 8.2.2 and 4.2.2 for (MAD)."
- Check collaborative crystallography
- Please describe a specific research project with a clear end point.

Information about the **deadline for accepting GU proposals** please visit : <https://als.lbl.gov/general-user-proposals/>

Proposal deadlines:

The **proposal** submission deadlines are:

January–June operating cycle: 1st Wednesday in September

July–December operating cycle: 1st Wednesday in March

- If you miss the opportunity to submit GU proposal you can submit RAPIDD proposal by following the instructions from <https://als.lbl.gov/rapid/>

Procedures after submitting GU and Rapid Proposals

After submitting the GU or Rapid proposals you will be sent an email from ALS staff and BCSB staff regarding the number of shifts allocated for your project. You will be contacted by the data collection Scientist for the preferable dates for allocating the shifts in the respective beamlines. Once these details have been sorted, and shifts are allocated to you, you will be sent an email for submitting logistics and Experiment Safety Assessment Form (ESAF).

To submit the ESAF, please login to the ALSHub: <https://alshub.als.lbl.gov>

- On the Home page, click on '**Complete experiment safety document**'
- Click on button '**Enter ESAF system**'. Each of your scheduled visits will be listed. If they are not, contact your beamline staff.
- To create a new ESAF, click on the **ESAF+** link on the appropriate visit.
- Complete the form providing all details of your experiment.

Safety documents must be submitted for each and every data collection and for each beamline. To make the process easier, you can copy of a previous ESAF.

To learn more, go to:

<https://als.lbl.gov/apply-for-beamtime/>

If you have any questions or comments on the ESAF form, do not hesitate to contact Experiment Coordination at als_expt@lbl.gov

Questions

Contact Banumathi Sankaran: BSankaran@lbl.gov