



HPCAT User Guide to Requesting Beamtime

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Beamtime Request Process Overview

What beamline do you need?

- Check current operational status
- Verify the technique and support equipment is available



Register with the APS User Office

- to receive a badge number
- to initiate experiment approval process



Establish a legal agreement with APS

- Acknowledge your institution in My APS Portal
- 1,611 Institutions with Master Agreements in place



Submit a proposal

- GUP beamtime requests collected 3x year
- After the deadline, Rapid Access possible
- Rated by independent review committee
- Not all experiments are feasible in Remote mode
- CAT beamtime requests go to your PI

- See <https://www.aps.anl.gov/Beamlines/Directory>
- See <https://hpcat.aps.anl.gov/beamlines>
- See aps.anl.gov

- Allow at least **2 weeks** to [process registrations](#) for US citizens, up to **4 weeks** for non-US citizens.
- DOE requires [current and complete CVs](#)
- The registration form asks non-US citizens to provide a visa number. Enter “Visa applied for” if you don’t yet have the number
- Create your ANL domain account (to log into ANL and APS systems)

- Action is required by you [in My APS Portal](#) before registration is approved
- [List of institutions](#)

- [General User Beamtime proposal requests](#) are valid for up to 2 years, but all will expire at the start of the APS-U shutdown. [See deadlines](#)
- You can submit a Beamtime Request (BTR) on an existing proposal
- If you don’t receive beamtime, PRP score improves by .2 (2x max)
- See: [GUP concepts, definitions and help](#)
- See: [APS Operations Schedule](#)
- **Beamtime for CAT Members (CDAC, SSAA, and DOE Tri-lab users) are handled through your PI – NOT through the GUP system**

CAT Member Beamtime



 **Lawrence Livermore
National Laboratory**



**SSAA Stewardship
Science Academic
Alliances Program**



Chicago/DOE Alliance Center

Send your beamtime request to your beamtime coordinator:

LLNL – Will Evans

LANL – Blake Sturtevant

SNL – Chris Seagle

CDAC – Steve Gramsch

SSAA – Nenad Velisavljevic

Describe what technique set up you need, preferred detector, preferred/unavailable dates, energy range, sample material, pressure/temp ranges, etc.

Feel free to reach out to the beamline staff directly at any time throughout the process

Once you've been awarded beam time

Formally accept your scheduled dates

- Reply to notification email by the requested date
- Change of dates is sometimes possible, but not easy



Complete all training

- Links to online training courses in My APS Portal
- Sector orientation is given in person



Submit ESAF

- List all experimenters, remote / on-site / off-site
- List all samples per ESAF instructions



Arrange shipping of DACs / equipment

- * Ask your institution to provide return shipping label
- * Establish a user account
- * Understand what is & is NOT provided by HPCAT

- Official GUP Allocation notifications come from APS first
- HPCAT then notifies you of the dates and local contact (to email in the APS database)
- SSAA/CDAC groups will receive date notifications from HPCAT
- You will not be scheduled on your listed “unacceptable dates”

- User office sends links upon registration approval
- [MY APS Portal](#)

- [ESAF System login](#)
- Create New ESAF for Scheduled or Allocated Beam Time (see [Instruction Guide](#))
- CAT allocations choose: “Create a New No-BTR Xray ESAF”
- See last month’s [“How to submit an ESAF”](#) presentation

- Instructions sent with beamtime notification
- Shipping address (and more) found on hpcat.aps.anl.gov/user-info
- SDS sheets are required by ANL
- [User account information](#)
- Plan to have your DACs arrive early. Allow EXTRA time

Where to find...

COVID Updates – <https://www.aps.anl.gov/Users-Information/Updates/Covid-Rule-Regulations>

APS User Info - <https://aps.anl.gov/Users-Information>

APS Phone App <https://aps.anl.gov/Users-Information/APS-Phone-Application>

Guest House info <https://www.anlgh.org/> *Now OPEN*

Preferred Off-Site hotels <https://www.anl.gov/area-accommodations>

More user news <https://hpcat.aps.anl.gov/user-info>

Remote Experiments – getting started with Globus Online

Paris-Edinburgh Cell and Hazardous Materials Shipping procedures

HPCAT Tech notes for 2022

HPCAT's Acknowledgement statement

- [Neil Ashcroft Early Career Award for Studies of Matter at Extreme High Pressure Conditions](#) – **Nomination Deadline: July 1, 2022**
- HPCAT Upgrade Plans – User Town Hall Meeting –1pm **Wed. Aug 24, 2022**
- **Job openings** from our user community are posted here: <https://hpcat.aps.anl.gov/resources>