

Submitting a General User Proposal

NOTE: You should submit a separate proposal for NE-CAT even if you have an existing proposal at another MX beamline.

To submit a General User Proposal (GUP), log into the APS Proposal system, found at the following url:

https://beam.aps.anl.gov/pls/apsweb/gup0005.start_page

Login with your APS badge number and APS Web Password.

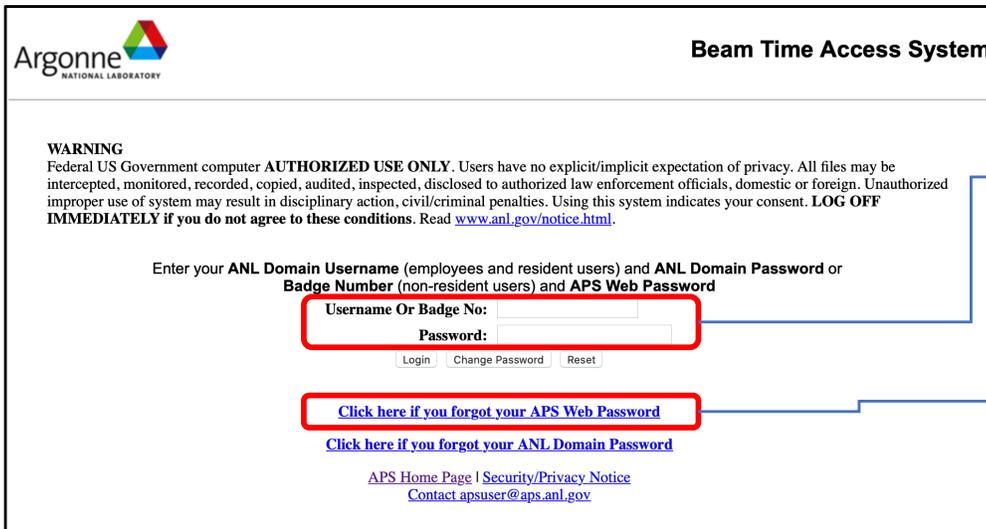


The badge number is located on the back of your APS badge and is highlighted in the picture above.

This link will open the page below.



Enter the information, hit submit, then answer your personal security questions. A temporary password will be emailed to you.



Argonne
NATIONAL LABORATORY

Beam Time Access System

WARNING
Federal US Government computer **AUTHORIZED USE ONLY**. Users have no explicit/implicit expectation of privacy. All files may be intercepted, monitored, recorded, copied, audited, inspected, disclosed to authorized law enforcement officials, domestic or foreign. Unauthorized improper use of system may result in disciplinary action, civil/criminal penalties. Using this system indicates your consent. **LOG OFF IMMEDIATELY if you do not agree to these conditions.** Read www.anl.gov/notice.html.

Enter your **ANL Domain Username** (employees and resident users) and **ANL Domain Password** or **Badge Number** (non-resident users) and **APS Web Password**

Username Or Badge No:
Password:

[Click here if you forgot your APS Web Password](#)
[Click here if you forgot your ANL Domain Password](#)

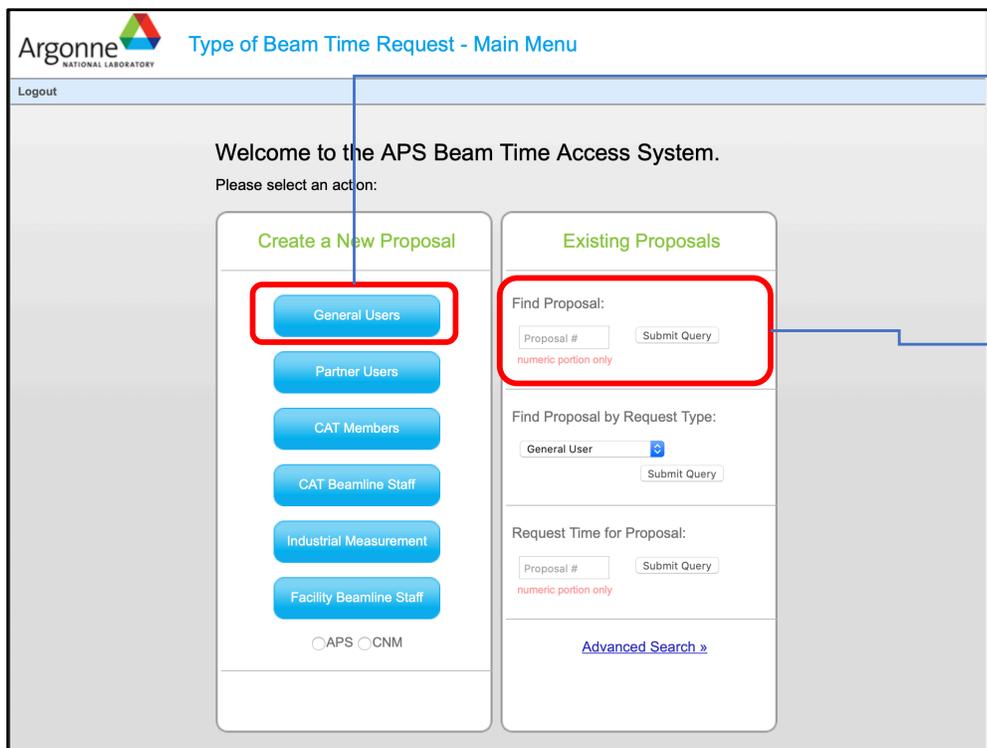
[APS Home Page](#) | [Security/Privacy Notice](#)
[Contact apsuser@aps.anl.gov](mailto:apsuser@aps.anl.gov)

Once logged in, you will be brought to the following webpage:

To begin a new proposal, choose General Users.

If you have an existing proposal that you are going to copy, you can search for it here by the proposal's number or use "Advanced Search" below.

See: Copying a General User Proposal



Argonne
NATIONAL LABORATORY

Type of Beam Time Request - Main Menu

Logout

Welcome to the APS Beam Time Access System.
Please select an action:

Create a New Proposal

-
-
-
-
-
-

APS CNM

Existing Proposals

Find Proposal:
Proposal #
numeric portion only

Find Proposal by Request Type:
General User

Request Time for Proposal:
Proposal #
numeric portion only

[Advanced Search >](#)

After choosing General Users, you must select your proposal type.

Select Your General User (GU) Proposal Type:

- Rapid Access Mail-in Powder Diffraction or PDF (11-BM, 11-ID, 17-BM) Proposal
- Macromolecular Crystallography Proposal (includes rapid access MC)
- Standard General User Proposal
- Rapid Access General User Proposal (DO NOT USE FOR MC PROPOSALS)

For beam time at NE-CAT, make sure you choose Macromolecular Crystallography Proposal.

Then choose one of the available cycles.

Cycles are formatted as year-# (e.g. 2020-1), where # indicates one of three runs in that year. Runs typically occur February through April, June through August, and October through December.

Choose the cycle the corresponds with when you want your **first** shift of beam time to be scheduled.

NE-CAT **IS** able to schedule you for a cycle labeled as Rapid Access.

NE-CAT cannot schedule you on this proposal during cycles that precede the cycle that you select. So if you select run 2 as the start of your proposal, NE-CAT cannot schedule you on that proposal in run 1 of that year.

These proposals are for macromolecular crystallography (MC) research. All MC proposals are valid for two years (6 cycles).

Available Cycle(s) for MC Proposal:

Select Rapid Access 2020-1 Select Rapid Access 2020-2

Provide a brief descriptive title of your proposal.

You should now be on the "General" tab of the proposal system.

Answer the list of questions to the best of your knowledge. Most of the answers will likely be "No".

The blue links in the questions will provide an explanation of the highlighted term.

General

GUP--1
Need assistance? General User Program: gu_program@aps.anl.gov, 630-252-9090

*** Proposal Title**

General User Proposal type Macromolecular Crystallography Proposal

Shifts Recommended by Proposal Review Panel:	not available	Shifts Used to date: (0)	Shifts not Remaining: available
---	---------------	---------------------------------	--

Do you want this proposal to be considered for project status? Yes No

Does this proposal require [mail-in service](#) where the [beamline collects the data](#) (beamline 31-ID only)? Yes No

* Does this research involve macromolecular crystallography? Yes No

* Will the data collected be considered proprietary? Yes No

* Will the data collected be considered classified? Yes No

Does this research involve [human subjects or materials](#)? Yes No

Does this research involve live animals? Yes No

* Are there known [safety hazards](#) associated with the proposed experimental procedures or your samples? Yes No

* Does this research involve the use of [radioactive samples/materials](#)? Yes No

* Does this research involve samples/materials that require a [BSL-2](#) or [BSL-3](#) facility? Yes No

* Does this research involve the use of [explosives or energetic materials](#)? Yes No

Is this research required for a student's thesis? Yes No

Have you spoken to a beamline staff member? Yes No

* Are you submitting this proposal to the APS because of the transition between NSLS-I and NSLS-II? Yes No

* Is this proposal related to another general user proposal? If so, which one(s) and how? Yes No

(500 characters or less)

Research is considered proprietary is you do not plan on publishing your results. If you select "Yes" you will be expected to pay APS for the time you use.

Classified refers to restriction of access to information due to National Security concerns.

If your protein is generated using a common cell expression system, the answer is "No", even if the protein is a human or animal protein.

"Yes" if you are using cryo-cooled samples, due to the cryogenics involved.

Answer "Yes" if this proposal is related to a proposal at another beamline, or continues a proposal that is expiring. Briefly describe how it is related to the other proposal in the text box below.

Continuing to the "General" Tab...

*** Primary Subject of Research (choose 1)**

Biological and life sciences Chemistry Earth sciences
 Engineering Environmental sciences Instrumentation related to user facilities
 Materials science Medical applications Optics (excluding x-ray optics)
 Physics Polymers Purchase of specialty service or materials
 Other (specify) **Specify Other :**

Secondary Subject(s) of Research

Biological and life sciences Chemistry Earth sciences
 Engineering Environmental sciences Instrumentation related to user facilities
 Materials science Medical applications Optics (excluding x-ray optics)
 Physics Polymers Purchase of specialty service or materials
 Other (specify) **Specify Other :**

Pressing SAVE will allow you to save this proposal and continue to make changes. Notifications will not be sent.

1. Save 2. Next

ANL
GUP-1

Primary Subject of Research is most often "Biological and life sciences" for macromolecular crystallography experiments.

Choose any of the Secondary Subjects of Research that you feel apply to your proposal.

On each tab, as you finish entering all the requested information, it's a good idea to press "Save". Then press "Next" to move to the next tab.

Pressing "Next" will bring you to the "Experimenter" tab.

General **Experimenters** Abstract Beamtime Request Questions Samples

GUP-70419
Need assistance? General User Program: gu_program@aps.anl.gov, 630-252-9090

The professor who oversees the lab conducting the research. If the proposal is for multiple labs, choose one of the professors to serve as the PI for the proposal.

*** Principal Investigator (PI)** Find

Individuals with a badge number must use the Find link to enter experimenter information. This link will allow searches by badge number OR name. To add more lines for experimenters, click "Save" at bottom of table.

First Name Last Name Badge
 Work Phone Cell Phone Email
 Institution
 Mailing Address
 Grant Holder/Name of Group/Laboratory Name, if applicable

If the PI is registered with the APS, use the "Find" link to search for them.



Search either by last name or badge number. Then select the correct user from the list. Using "Find" will populate the contact information from APS's database.

Registered Experimenters Coming to APS

Badge	First Name	Last Name	Affiliation	Work Phone	Cell Phone	Email
Find						
Find						
Find						
Find						

Registered Experimenters Not Coming to APS

Badge	First Name	Last Name	Affiliation	Work Phone	Cell Phone	Email
Find						
Find						
Find						

List Experimenters who are likely to manage requesting beam time for your group using this proposal or filling out the Experimental Safety Assessment Form (ESAF) prior to scheduled beam time.

Use "Find" as above, to automatically fill columns.

Important: Only individuals listed on the Proposal, as either the PI or as a Registered Experimenter, will have access to this proposal. Access to this proposal is needed to request beam time and to utilize the ESAF creation link provided in beam time scheduling emails.

Next is the "Abstract" tab.

Provide a short abstract describing the proposed research. This will be viewed by reviewers, so make this as clear and descriptive as possible.

Use this link to attach Figures or graphs that will help to illustrate your proposal's abstract.

Read this section to understand the limits imposed on the abstract.

Remember to press "Save" then press "Next" before moving to the next tab.

Request the number of 8 hours shifts needed for the entire two-year life of the proposal. Be generous! But don't worry, the proposal will remain active for the entire two-year period, even if you underestimate.

The form will not allow you to select Technique or Beamline choice if you have not already selected a scheduling period.

NE-CAT can accommodate the following techniques:
• Large Unit Cell Crystallography
• Macromolecular Crystallography
• Microbeam
• Multiwavelength Anomalous Dispersion
• Singlewavelength Anomalous Dispersion
• Subatomic (<0.85 Å) Resolution

For NE-CAT beamlines, choose 24-ID-C as your first choice and 24-ID-E as your second choice.

Request the number of shifts that you might need for this **entire** 3-month scheduling period.

Next is the "Beamtime Request" tab.

The system requires you to make a beamtime request when you submit a proposal, so fill this out as thoroughly as possible.

If you are planning to use time at multiple sectors (e.g. NE-CAT and SER-CAT), submit a separate proposal for each sector, even if you are studying the same projects.

The “Questions” tab requires you to respond to several questions regarding your proposal that are used by reviewers to score your proposal.

First select the categories that apply to your proposal. Choose all that apply, as these categories are valued by the reviewers.

General Experimenters Abstract Beamtime Request **Questions** Samples

GUP-70419
Need assistance? General User Program: gu_program@aps.anl.gov, 630-252-9090

* Which of these categories fit your proposal? Check all that apply (This information will be used for reviewer selection).

- Viruses
- Membranes
- Large Assemblies
- Complexes
- Nucleic Acids
- Structural Genomes
- High Resolution
- Time Resolved
- Education
- Instrumentation
- General

The remaining questions on this page are:

- **If this work is a continuation of work done under a previous proposal, give the previous proposal number and indicate what changes have been made.**
If this is an entirely new proposal, enter N/A.
If this proposal continues a previous proposal, explain what progress has been made on the research project and any changes to the scope of the project being made in this proposal.
- **What is the scientific or technical purpose and importance of the proposed research?**
Tell the reviewer how this research will impact the world.
- **Why do you need the APS for this research?**
An answer, such as “APS provides stable, high intensity X-ray beams for macromolecular crystallography and also provides the option of using micro-beams for small or non-homogenous crystals.”, will suffice.
- **Why do you need the beamline you have chosen?**
A simple, specific reason that states what capabilities of the NE-CAT beamline benefit your experiments is best.
- **Describe the participants' previous experience with synchrotron radiation and the experimental results obtained. (If you refer to previous publications, be sure to include complete citations.)**
List each participant who has experience with collecting macromolecular crystallographic data with a brief description of their experience.
- **Provide an overall estimate of the amount of beam time you will need to accomplish the goals of your proposed experimental program. How many visits during the two-year proposal period do you expect to need? How many shifts will you need during each visit (approximately)?**
You’re basically repeating your beam time estimates that you provided on the Beamtime Request tab.
- **List publications resulting from work done at the APS. Please identify the beamline(s) where the work was done.**
- **References (limit : 2000 characters)**
List any recent publications that support your proposal.

The final tab is the “Sample” tab.

Enter as much of the information as possible for each sample you currently plan on bringing/sending to the beamline. If you have not yet fully characterized your samples, it is okay to skip the details you do not know.

General Experimenters Abstract Beamtime Request Questions Samples

Need assistance? General User Program: gu_program@aps.anl.gov, 630-252-9090

List of Samples

Sample name and type of molecule must be entered if any other sample related data is to be saved.

Sample Name

Type of molecule: Protein DNA RNA Virus Prion Toxin Complex of type Other

Unit Cell Information				Crystal Size and Quality			Safety Information	
Space Group:				mm by	mm by	mm	Bio Safety Level:	
a :	A	alpha :		Resolution Limit	A		Known Biohazard:	
b :	A	beta :		Mosaicity	Degree			
c :	A	gamma :						

Experimental Needs

Desired Energy: KeV

Crystal Cryo-Freezing Conditions: Known Unknown

Structure Solution Strategy:

MIR - elements

MAD - elements

Molecular Replacement

High Resolution - Resolution Desired A

Other

Crystal mounting method and type of pins Yale Hampton 1/8 inch or 3 mm pin Other

Please specify the funding source(s) for this sample:

DOE - Office of Basic Energy Sciences

DOE - Office of Biological and Environmental Research

NNSA

Homeland Security

DOE - other (incl. LDRD)

DOD (incl. Air Force, Army, etc.)

NASA

NIH

USDA

NSF

Other U.S. Government (incl. NIST, EPA, etc.)

Private or Public Research Foundation/Institution or Charitable Organization

University/Educational Institution

Industry

Howard Hughes Medical Institute (HHMI)

Foreign

Other - specify

[Add Another Sample](#)

1. Save

2. Submit

Select the funding source(s) that are relevant to the particular sample being described on this page.

Use the “Add Another Sample” link to input additional samples. Clicking the link will bring up a new page the looks just like this one.

Once you have entered the information on all of the tabs, press “Save” one last time. **Only AFTER** you have pressed “Save”, press “Submit”

Once you have finished filling out the form, press Save. **AFTER** you have pressed save, you can press Submit. **WARNING: If you press Submit before saving, the form erases everything you have just entered.**

After you press submit, you will be shown a page acknowledging your submission.

Once you have submitted a proposal that requests time at NE-CAT, NE-CAT will contact you for scheduling. NE-CAT begins scheduling for a specific run about a month before that run starts and will continue to schedule through the end of that run as time is available.

If you requested beam time during the current run, contact Cyndi Salbego (csalbego@anl.gov) to make scheduling arrangements.