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synchrotron

CLS Proposals and Access

Kathryn Janzen, User Experience Lead
July 16, 2026

Outline

The Basics

- Beamlines and Techniques
- Beamtime, Shifts, and Cycles

Beamtime Access Mechanisms

- Purchased Access, Rapid Access, Beam Team Access, Peer-Reviewed Access

Peer Review Process

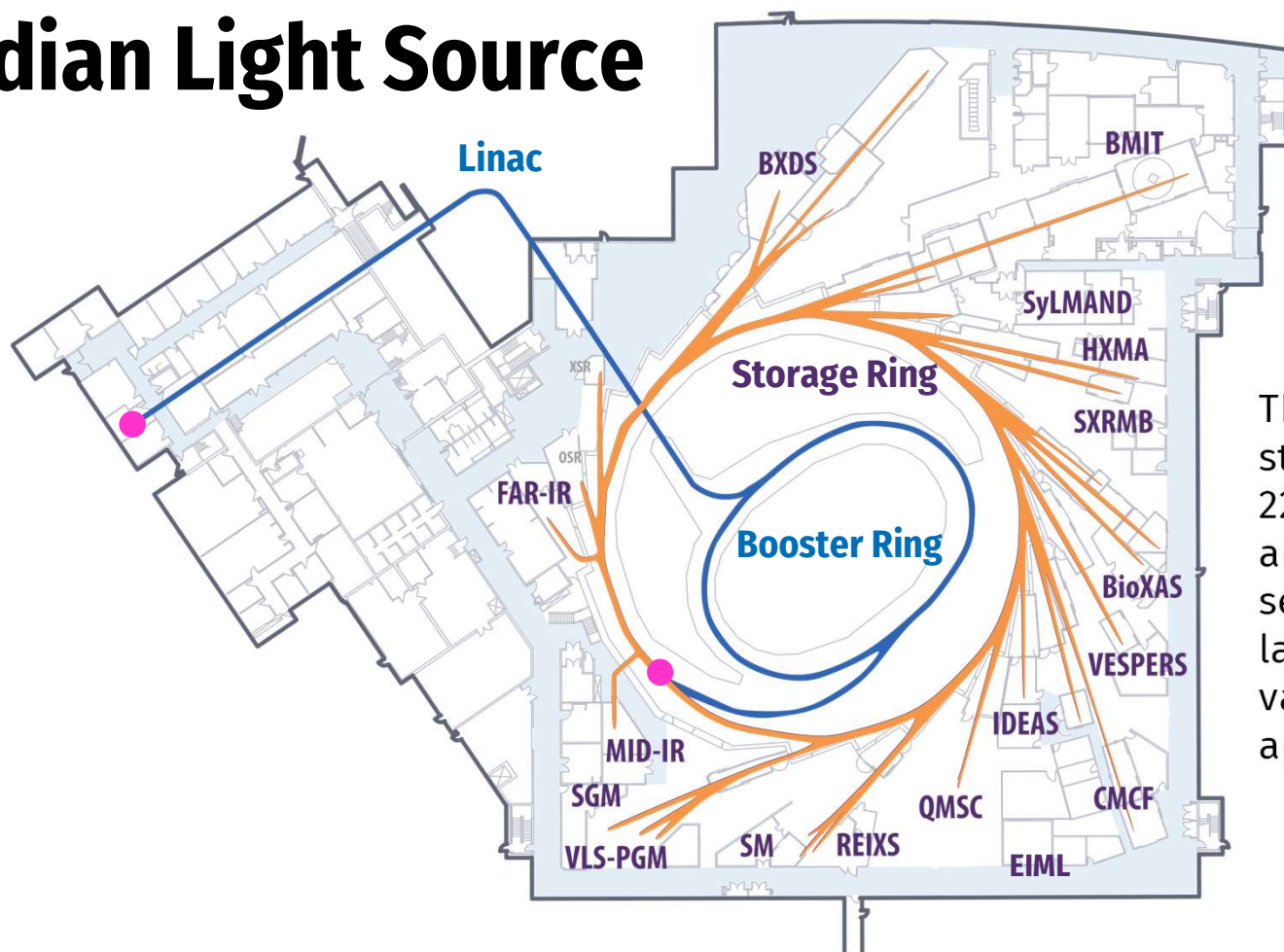
- Reviews, Allocation
- Strategic Beamtime
- Tips for Writing a Proposal

CLS User Portal Overview / Submitting a Proposal



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Canadian Light Source



The CLS has a 2.9 GeV storage ring supporting 22 beamlines, as well as an electron beamline and several user accessible labs to support a wide variety of research applications.



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CLS Beamlines

FAR-IR 
Fundamental studies of molecules in all states of matter

MID-IR 
Infrared studies of biological, agricultural, or environmental samples, polymers, art specimens, and more

SGM 
In-situ and in-operando studies of soil, environmental samples, and catalytic materials

CLS@APS 
Partnership program between the CLS and the Advanced Photon Source (APS) at Argonne National Laboratory in Illinois, USA

VLS-PGM 
High-resolution, low energy spectroscopic studies

SM 
Spectromicroscopic studies in biological, environment, and materials sciences

BXDS 
Suite of three beamlines for characterizing the structure of materials

REIXS 
Studies of the electronic properties of materials, including quantum and nano-scale biomaterials

BMIT 
Beamlines dedicated to 3D imaging of matter, from biological tissues to advanced materials

SYLMAND 
X-ray lithography and pre- and post-processing laboratories

HXMA 
In-situ and ex-situ studies of the chemical state of elements in materials

SXRMB 
Medium energy studies in the biological, environmental, and chemical sciences

BIOXAS 
Imaging and spectroscopy on biological samples and trace element detection/speciation in matter

VESPERS 
Hard x-ray microprobe with a wide variety of applications

CMCF 
Suite of two beamlines for macromolecular crystallography (MX)

EIML 
Electron imaging and microscopy laboratory

LEGEND

SPECTROSCOPY 

IMAGING / MICROSCOPY 

SCATTERING / DIFFRACTION 

MICROFABRICATION 

QMSC 
Angle- and spin-resolved photo-emission spectroscopy

IDEAS 
Dedicated to industry, development, outreach, and education



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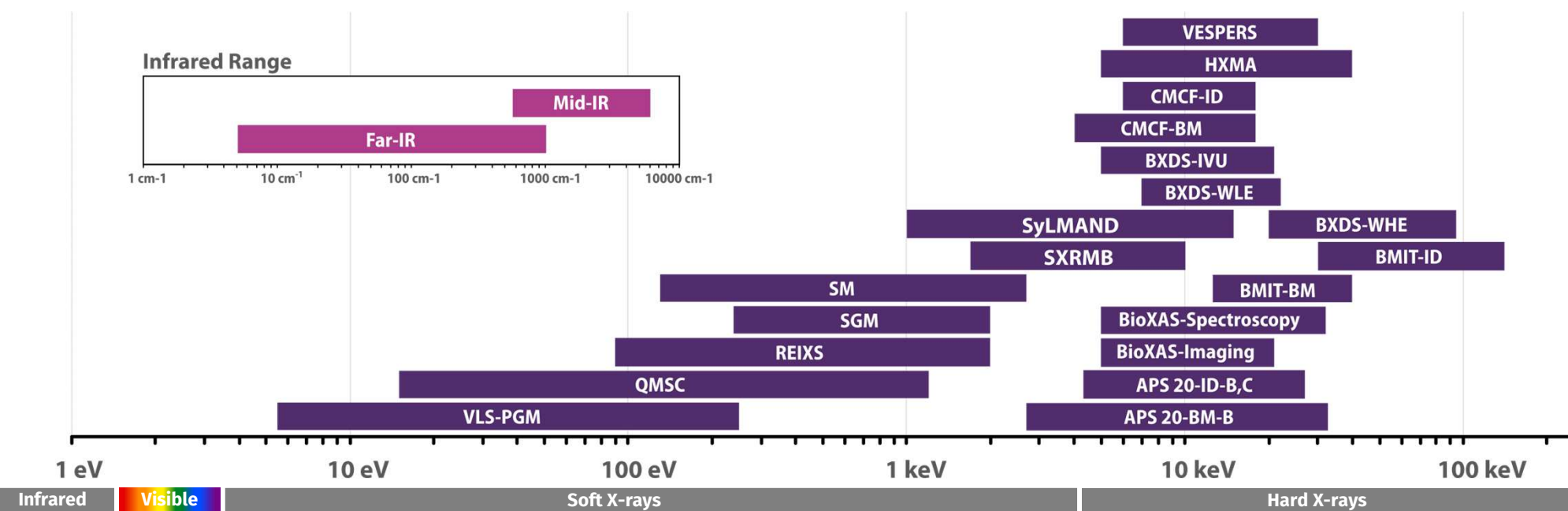
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CLS Beamlines' Spectral Range

The light on CLS beamlines is brighter than the sun, spanning the electromagnetic spectrum from infrared to ultra-hard X-rays, and can probe elements across the entire periodic table, revealing details invisible to conventional techniques.



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Science Operations

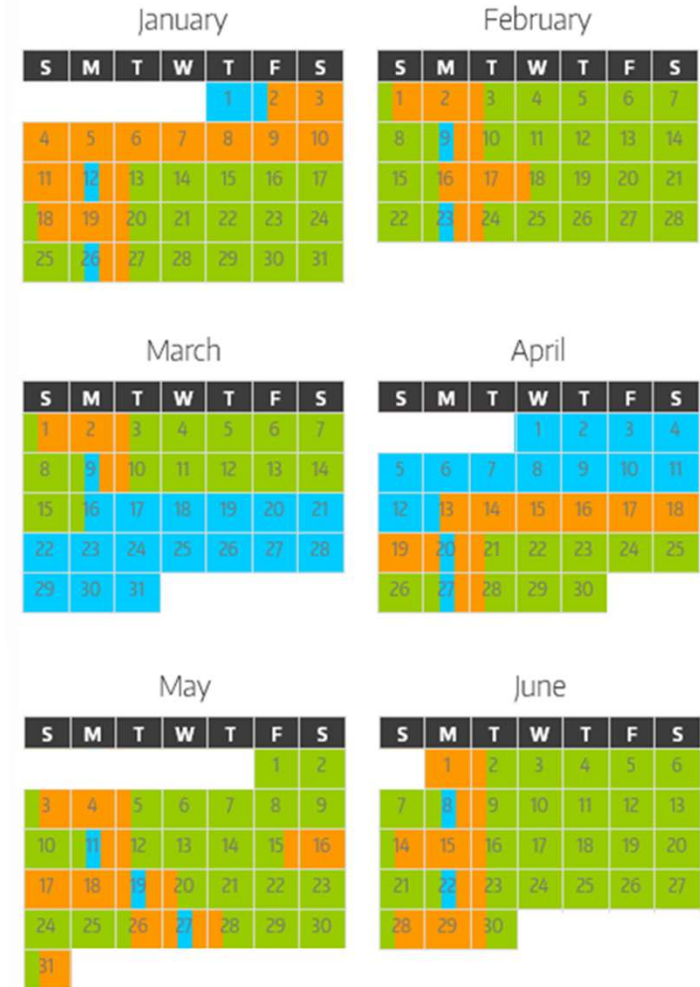
Beamtime is access to a CLS beamlines.

Beamtime is allocated to users in **shifts**. One shift is 8 hours of beamtime.

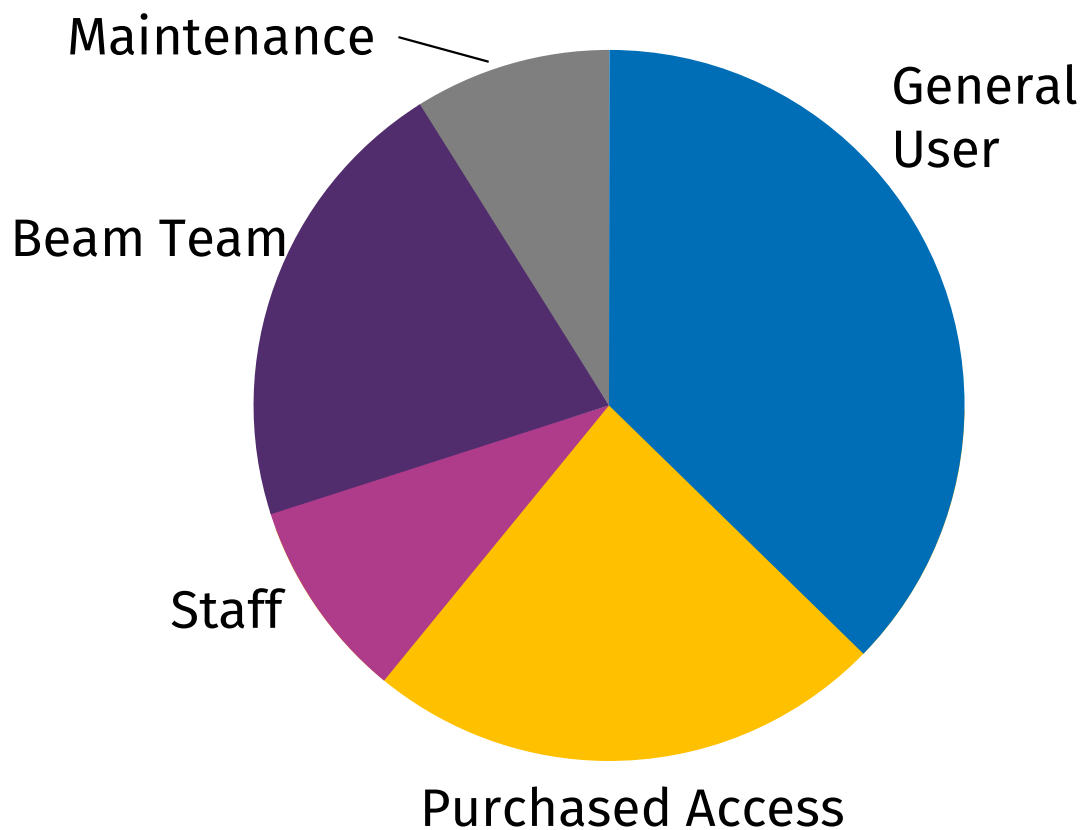
Beamtime is allocated and scheduled in **Cycles**, typically 6-months long.

The facility operations schedule defines when the CLS is in different modes:

- Normal Beamtime: Open to user experiments
- Maintenance: Shut down for facility maintenance
- Development: Maintenance and improvements to the linear accelerator and storage ring can be performed



Accessing Beamtime



Staff

≤10%

PURPOSE:
Beamline staff
experiments

Beam Team

≤25%

PURPOSE:
Priority access for
Beam Team members

Education

Beamtime as
available

PURPOSE:
High school or
undergraduate
student projects

Rapid

Beamtime
as available

PURPOSE:
Time-sensitive
academic projects not
in a Call for Proposals

Purchased Access / Industry

Beamtime
as available

PURPOSE:
Proprietary or fee-for-service experiments via CLS
Industry Services

General User Access

≥40%

PURPOSE:
Competitive peer-reviewed access for publishable
science through a Call for Proposals, twice per year

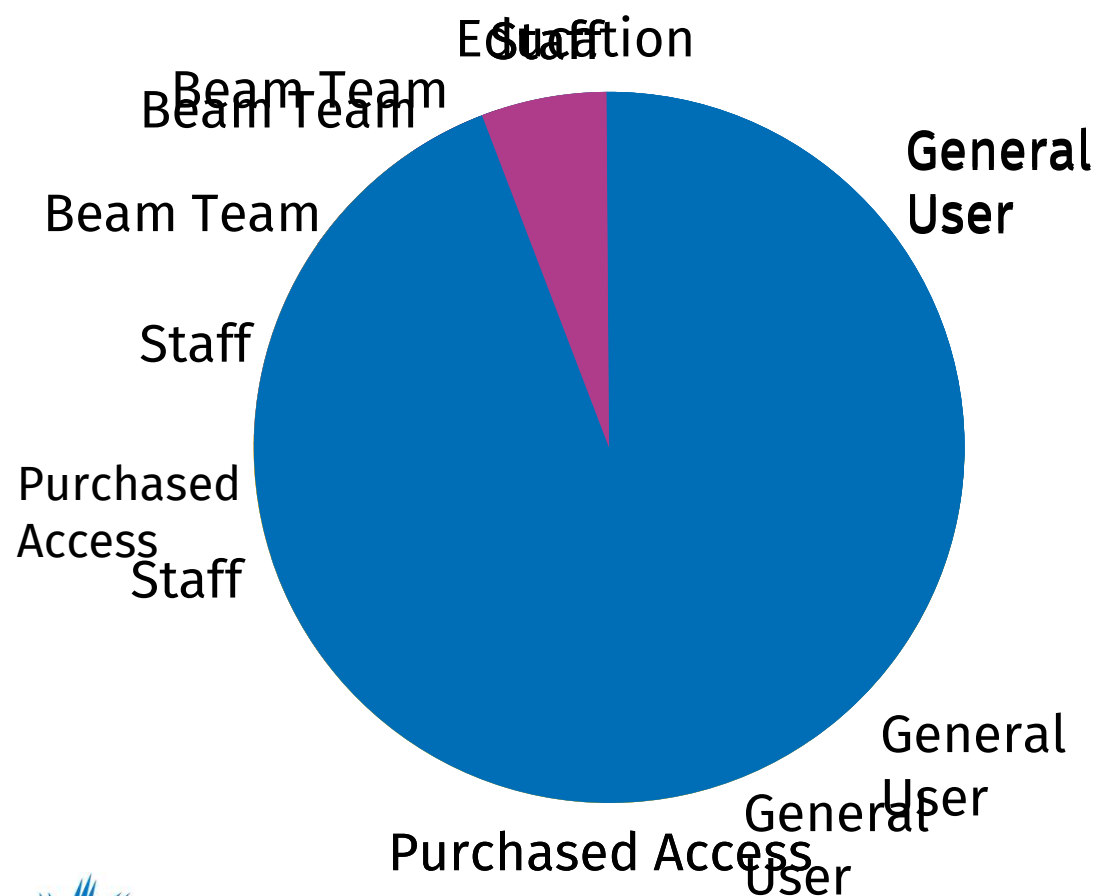


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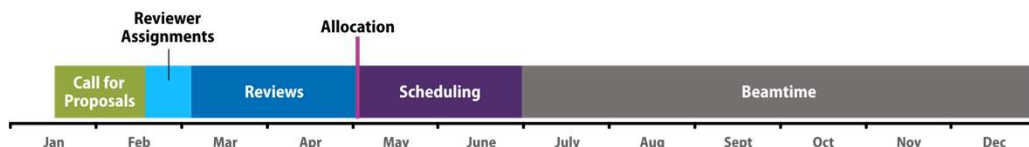
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Accessing Beamtime

All proposed research at the CLS is subject to:

- ✓ **Technical Review** – Can this work be completed on this beamline?
- ✓ **Safety Review** – Can this experiment run safely? How?
- ✓ **Scientific Review** – What is the scientific significance and potential impact of this research?
 - **Internal Review:** Approval from a Science Manager
 - **Peer Review:** Full peer-review process, run twice per year, involving hundreds of external reviewers and the CLS Peer Review Committee (PRC).



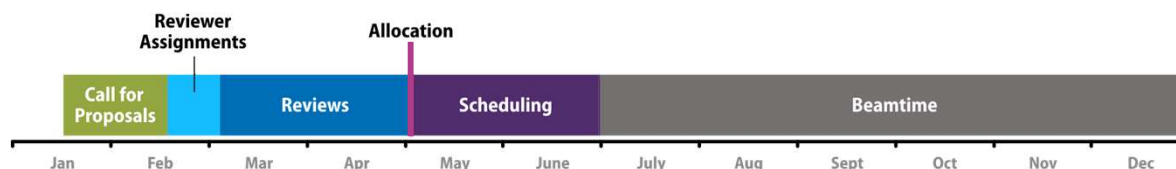
Typical timeline for the CLS peer review process



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Internal Review Only	Staff ≤10% PURPOSE: Beamline staff experiments	Beam Team ≤25% PURPOSE: Priority access for Beam Team members
	Education Beamtime as available PURPOSE: High school or undergraduate student projects	Rapid Beamtime as available PURPOSE: Time-sensitive academic projects not in a Call for Proposals
	Purchased Access / Industry Beamtime as available PURPOSE: Proprietary or fee-for-service experiments via CLS Industry Services	
	General User Access ≥40% PURPOSE: Competitive peer-reviewed access for publishable science through a Call for Proposals, twice per year	
Peer Review		

Peer Review



Call for Proposals

Open twice a year, accepting new proposals or beamtime requests (BTRs) for existing Projects

- GU Projects are eligible for beamtime for up to 4 cycles, after successfully completing the peer review process

Jan/Feb for July-Dec beamtime | July/Aug for Jan-June beamtime

Reviewer Assignments

Proposals are matched with Peer Review Committee (PRC) members and external reviewers (≥ 2 reviews per Proposal) based on Subject Areas, Requested Techniques, and Spectral Range

Reviews

Scientific Merit scores from external reviewers are reviewed by the PRC, and used to rank proposals for beamtime allocation.

Reviewers may request clarifications about your project.

Users Notified After Allocation

Results of peer review (scores and reviewer comments) are shared with spokespeople, PIs, and delegates, whether beamtime was allocated or not.

Scheduling

Beamline staff make arrangements with users to schedule awarded beamtime

Beamtime

Experiments are reviewed for safety before proceeding, team members complete any required training, and the fun begins!



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About the Reviews

Scientific Reviews | Peer Reviewers

At least two external peer reviewers score your proposal for **Scientific Merit** of the proposed experiment

- **1-4:** Project eligible for beamtime (allocated to top scoring proposals) for up to 2 years (four cycles)
- **5:** Unsuccessful proposal

Peer Review Committee

International panel meets to:

- Discuss proposals with large standard deviations, or very poor scores
- Discard scores that are deemed biased or inappropriate
- Approve overall scientific merit scores

	Alessandra Gianoncelli Elettra Synchrotron Light Source
	Adam Gillespie University of Guelph
	Andi Barbour Brookhaven National Laboratory
	Angelo Malachias Federal University of Minas Gerais (UFMG)
	Anne Bonnin Paul Scherrer Institute
	Bas Vriens Queen's University
	Chisu Kim Hydro Quebec
	Chongyin Yang Dalhousie University
	Daniel Olive Los Alamos National Laboratory
	Grant Bunker Illinois Institute of Technology
	Jeff Terry Illinois Institute of Technology
	Lars Ehm Stony Brook University
	Ming Yi Rice University
	Naoto Yagi Photon Science Innovation Center
	Peter Kopitke University of Queensland
	Raul de Oliveira Freitas Brazilian Synchrotron Light Laboratory
	Shathi Akhter Agriculture and Agri-Food Canada
	Sylvain Bohic Inserm
	Xianghui Xiao Brookhaven National Laboratory
	Gil Privé University of Toronto, Princess Margaret Cancer Centre
	Maksymilian Chruszcz Michigan State University



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Allocation

Allocation Committee: CLS Science Directors, Science Managers, Beamline Responsibles

Observers: Users' Executive Committee Representative

The Allocation Committee awards beamtime to projects based on rankings from the PRC.

- Beamtime awarded primarily on Scientific Merit score.
- If scientific merit scores are comparable, suitability and capability scores may be considered as well.
- Strategic Beamtime allocations – *stay tuned for more details*

How do I get a good score?

Project	Merit	Requested
A. Farrah Fowler	1.20	15
L. Hofstadter	1.20	18
R. Koothrappali	1.60	15
B. Rostenkowski	1.67	18
S. Cooper	2.00	18
H. Wolowitz	2.40	21
B. Kripke	2.40	18
L. Winkle	2.50	15
B. Kibbler	2.60	21
E. Sweeney	3.00	9
P. Teller	3.33	18



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Look at the Answer Key!

Scientific Merit rubric

Reviewers Want to See...

- ☐ The importance and quality of the science
- ☐ Do your experimental and data analysis plans adequately address the scientific question?

Does the proposal describe what is to be studied and the importance of it? What hypothesis would be tested? How will the results impact the field? What is the likelihood of success?

1 Outstanding

The proposed research is highly original and will significantly influence the development of the field and/or have major societal benefit. The project should be a high priority to receive beamtime. The experimental and data analysis plans are very well described, and give great confidence in the ability of the team to address the scientific question, even if the cutting-edge nature of the experiment may carry with it some risk of failure.

2 Excellent

The research will influence the development of the field and/or have societal benefit, and should be awarded beamtime if available. The experimental and data analysis plans are adequately described.

3 Good

The research is worthwhile, and may be deserving of beamtime if available. There may be some weaknesses in the experimental or data analysis plans.

4 Weak

The research is of questionable value and/or the experimental and data analysis plans do not suggest confidence in the ability of the team to address the scientific question. Should be given a low priority to receive peer-reviewed beamtime.

5 Poor

The research is of little to no merit and/or the experimental and data analysis plans are either absent or give no confidence in the abilities of the team to address the scientific question. Should not be given beamtime even if available.



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Writing a Strong Proposal

- ✓ **Explain why this research is important**
 - Write for a scientific audience that may not be an expert in your specific field
 - Write so an expert in your specific field can see you know what you are doing
- ✓ **Choose the right beamline(s)**
 - Request the number of shifts you will need in the upcoming Cycle
- ✓ **Describe what you want to do**
 - Sample preparation
 - Experiment Plan
 - Data Analysis

Talk to the Experts!

Beamline Staff are the people completing your proposal's Technical Review.

They can help...

- Estimate the number of shifts you may need
- Provide information on how samples should be prepared
- Give advice on your experimental plan



Writing a Strong Proposal | Bonus Round

Align with CLS Strategic Priorities

A limited amount of strategic beamtime may be awarded to projects of high strategic importance to the CLS, but were not ranked high enough for GU beamtime based on scientific merit scores along.

- ✓ If applicable, highlight the strategic importance of your research in the **Benefits to Canada** section of the proposal form

1. Grow New Canadian User Communities to Advance National Research and Innovation Priorities

Engage and onboard new Canadian research groups (new principal investigator to a beamline) across the four key scientific areas of agriculture, advanced materials, environment, and health, supporting projects that align with Canada's evolving scientific, technological, and innovation priorities.

2. Support Canadian Researchers Developing Dual-Use Technologies

Encourage research with both civilian and defense applications, including advanced materials characterization (e.g., extreme environments or Arctic conditions), nuclear science, and biosecurity.

3. Critical Minerals Research and Innovation

Drive proposals focused on Canadian critical minerals research and development.

4. Build and Strengthen Canadian Partnerships

Enhance collaboration with Canadian government laboratories across the four targeted scientific areas.



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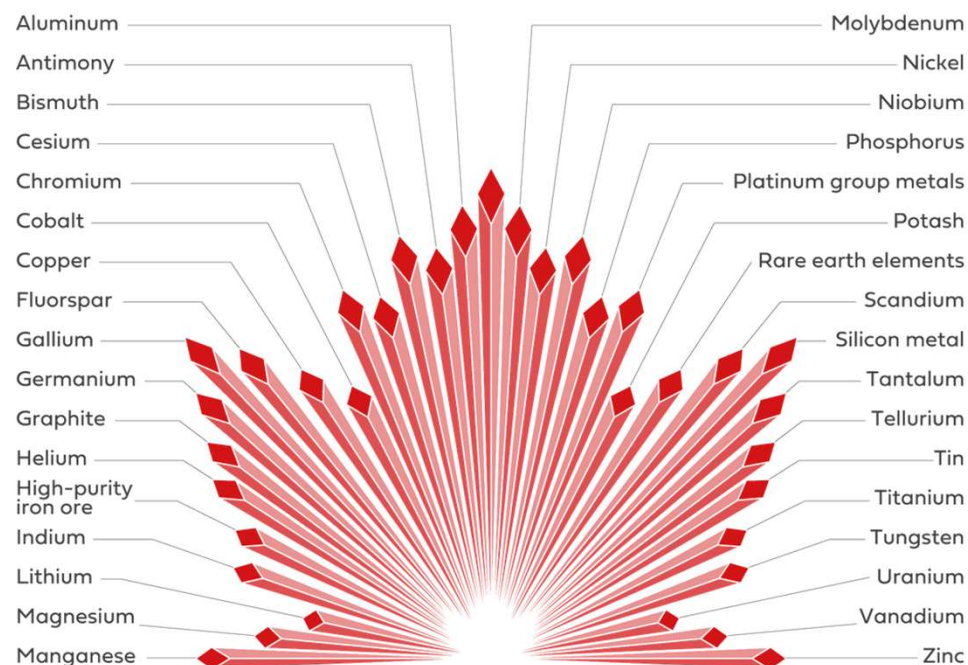
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Use the results in your next submission



Your Project was awarded beamtime!

Project is active for 4 cycles and your score is used to compete for beamtime in subsequent cycles.

If you need more beamtime, submit a **Beamtime Request** in the next Call for Proposals.

No
Beamtime

Passed Peer Review, but no beamtime awarded

Project is still active for 4 cycles, but your score may not be good enough to be awarded beamtime in future cycles. This is highly beamline-dependent.

Submit a new proposal in the next Call for Proposals

- ✓ In the User Portal, **clone** an existing proposal, or create a brand new one.
- ✓ Address comments from reviewers and strengthen your experimental plan.
- ✓ Highlight the strategic importance of your research.



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Resources

General Science Inquiries

solutions@lightsource.ca

CLS Website | www.lightsource.ca

User Portal | user.lightsource.ca

Beamline Websites

Each beamline maintains a website with information relevant to their users, including detailed contact information for beamline staff.



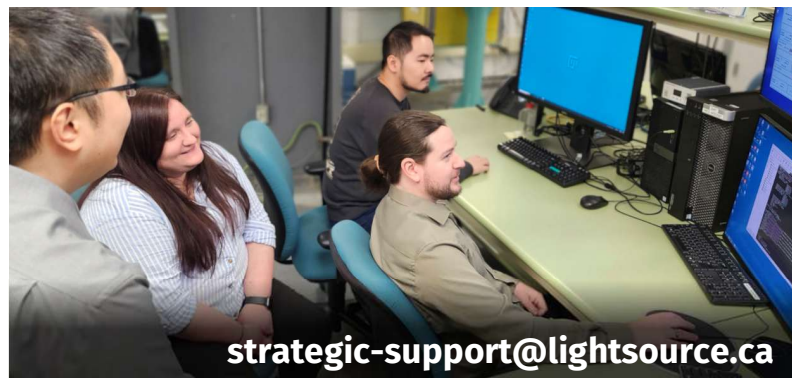
CLS User Services Office

clsuo@lightsource.ca

Ashley Geddes, Peer Review Coordinator
Kathryn Janzen, User Experience Lead

CLS Strategic Support Group

Your gateway into the world of synchrotron science, with experts who will work with you every step of the way.



strategic-support@lightsource.ca



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Pause for Questions

The Basics

- Beamlines and Techniques
- Beamtime, Shifts, and Cycles

Beamtime Access Mechanisms

- Purchased Access, Rapid Access, Beam Team Access, Peer-Reviewed Access

Peer Review Process

- Reviews, Allocation
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- Tips for Writing a Proposal

Up Next: CLS User Portal Overview / Submitting a Proposal



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CLS User Portal

Register as a CLS User

➔ user-portal.lightsource.ca



Sign in

[Can't access your account?](#)

Back

Next

Existing CLS User? Login now with your CLS username in the format <username>@clsi.ca and your usual CLS password.

Ready to get started? [Register as a new user](#) for access to CLS facilities.



Sign-in options



CLS User Portal

Register as a CLS User

➔ user-portal.lightsource.ca

For full access:

- ☐ Complete multi-factor authentication process
- ☐ Institution Agreement to Access the CLS Facility
- ☐ Agree to comply with STRAC Policy (Research Security)



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Registration

Tell us about yourself

Your Names *

Given Name

Family Name

Preferred Name

Contact Information *



Email



+1 Can...

Phone Number

Field of Research

- ☐ Physical & Chemical Sciences
- ☐ Medical & Health Sciences
- ☐ Earth & Environmental Sciences
- ☐ Social Sciences & Humanities
- ☐ Engineering & Technology
- ☐ Agricultural, Veterinary & Food Sciences
- ☐ Biological Sciences

Are you a student or post-doctoral fellow? *

- ☐ Yes
- ☐ No

Department *

Work Address *

Street

Street

City

City

Country

Country...

Province / State / Region

Province/State/Region ...

Postal / Zip Code

Postal Code

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Machine Announcements

Machine Announcements

Recent Announcements

Building power is back, we are now working to... 2026-01-29 09:46

☐ Show more

Saskatoon, SK

**-10°**

18:00 Today

**-11°** | -17°

00:00 Tomorrow

**-14°** | -22°

06:00 Tomorrow

**-15°** | -23°

RIGHT NOW – Overcast Clouds · Feels like -18°

My Profile

Kathryn Janzen

Professional

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Canadian Light Source Inc.

44 Innovation Blvd, Saskatoon, S7N 2V3, SASKATCHEWAN, CANADA

Proposal Submission

Proposals

The Call for Proposals is now open. Submissions will be accepted until 2026-02-25 at 12pm (noon) CST.

[+ Create a Proposal](#)

Draft Proposal

1

Reviews and Clarifications

Proposal Being Reviewed

1

A Modest Proposal

Training Status

Training Requirements

No Facility Access

Photo Expired 2026-01-06

ID Verification Expired 2026-01-06

WHMIS Safety Never expires

Basic Radiation Safety Never expires

Employee Health and Safety Expired 2025-09-01

General Health and Safety Expired 2025-09-01

Beam Time Requests

The Call for Proposals to be scheduled during the period 2026-07-01 – 2026-12-31 is currently open with a submission deadline of 2026-02-25 at 12pm (noon) CST.

Cycle 42 (Jul-Dec 2026)

Publications Database

Publication Keywords

general high nuclear genetics
biology energy light

Need a hand?

The User Services Office is here to help. Contact us for support!



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Manage Your Projects,
Beamtime, Samples,
Publications...

Proposals

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+ Create a Proposal

Draft Proposal

New Developments in Chemistry

Proposal Being Reviewed

A Modest Proposal

Training Requirements

No Facility Access

Photo

ID Verification

WHMIS Safety

Basic Radiation Safety

Employee Health and Safety

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Expired 2026-01-06

Never expires

Never expires

Expired 2025-09-01

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Cycle 42 (Jul-Dec 2026)

BIOXAS-SPI

VESPERS

SXRMB (1)

Publication Keywords

general

high

nuclear

energy

biology

light

genetics

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HXMA — Hard X-ray Micro-Analysis

[MATSCIENCE](#) / [HXMA \(Beamline\)](#)

Calendar



Website

Operating

A hard X-ray beamline for micro-analysis with dedicated X-ray absorption spectroscopy and diffraction endstations. The beamline can be used to study the structure of materials under controlled environments (high pressure, flow-cell furnace, etc), in situ, magnetic structure from bulk and thin film samples, etc.

Specifications & Techniques

Source Superconducting wiggler

Spectral Range 5 – 40 keV

Resolution 10^{-4}

Spot Sizes 0.8 mm x 1.5 mm

Photon Flux 10^{12} @ 12 keV

-  Grazing Incidence X-ray Absorption Spectroscopy (GI-XAFS)
-  X-ray Absorption Spectroscopy (XAS/XANES/XAFS)

 Available  Special Request

Shift length: 8 hours

**Browse beamline capabilities
under Facilities, or under
“Beamlines” on the CLS website**



Create Proposal



Enter a title for the proposal:

My Test Proposal

Select a type of proposal:



Beamline Commissioning



Beamline Maintenance and Development



Beamteam Access



Educational Access



General User Access



Industry Services Access



Rapid Access



Scientific Commissioning Access



Staff Access

General User Access

General Users are researchers who are allocated beamtime based on a competitive peer review process, which takes place twice per year. To qualify for this peer review access, there must be an intent to publish scientific results in a timely manner. A minimum of 40% of experimental facility access time will be available for this type of access on each beamline. CLSI will provide experimental time to all approved proposals to the extent resources are available. A nominal access fee of \$1 per delivered eight-hour shift will be invoiced to the User.

Proposal will be created for Cycle 42 (Jul-Dec 2026)

The Call for Proposals is now open. Submissions will be accepted until Feb 25, 2026 at 12pm (noon) CST, which is in 3 weeks, 5 days

Cancel

Create

during the period
open with a submission
) CST.

BIOXAS-SPI +
VESPERS +
SXRMB (1) +

clear
energy
light
genetics

Contact us for support!

Employee Health and Safety

Expired 2025-09-01

General Health and Safety

Expired 2025-09-01



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Description

Research Team

Beamlines

Materials

Attachments

Title *

My Test Proposal

Abstract *

0 word(s) (200 max)

Research Area & Keywords *

Subject Areas: *

Select Some Options

Keywords:

Scientific Description *

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T_x Abstract

The abstract should be written for a more general audience, avoiding the use of domain-specific jargon. The following elements should be addressed briefly:

- 1 A statement of the question to be addressed;
- 2 the anticipated major outcomes and
- 3 the potential impact to society and the field.

Please limit your response to ~200 words.

Save

Preview

Thanks for being here!

General Science Inquiries

solutions@lightsource.ca

CLS Website | www.lightsource.ca

User Portal | user-portal.lightsource.ca

Beamline Websites

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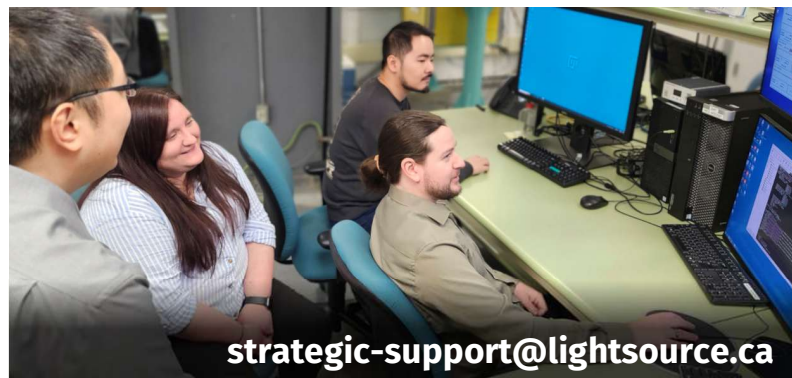
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