



Our Currency: Beamtime

Beamtime is access to a CLS beamline.

Beamtime is allocated to users in 4- or 8-hour shifts.

S	М	T	w	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Facility Mode Legend

Normal Beamtime

Beamtime available on all beamlines for user access

Development

Beam used to commission or for development of part of the machine or specific beamlines

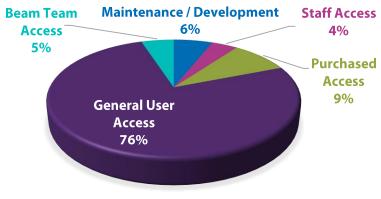
м Maintenance

Time to perform maintenance on the machine (no beam).



How is beamtime allocated?

Beamtime allocated twice a year, for the upcoming 6-month cycle, with several different available access modes, similar to other synchrotron facilities.



Typical Facility Usage (based on data from 2017-2021)



MAINTENANCE / DEVELOPMENT

Access for maintenance, commissioning, and development of CLS beamlines

10%
OF NORMAL
BEAMTIME



STAFF ACCESS

Access for CLS staff research projects

<10%
OF NORMAL
BEAMTIME

PURCHASED ACCESS

Available for experienced synchrotron users wanting

<25%

OF NORMAL BEAMTIME



BEAM TEAM ACCESS

"Partner user" access for those who have provided money and expertise to develop CLS beamlines

to avoid peer review, or for proprietary research

<25%
OF NORMAL

OF NORMAL BEAMTIME



GENERAL USER ACCESS

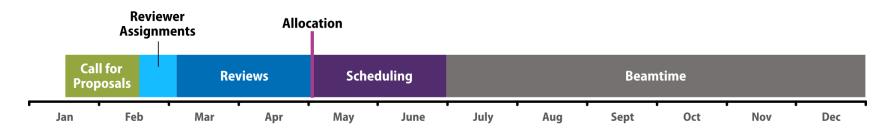
Academic access through peer-reviewed proposals

>30%
OF NORMAL
BEAMTIME



CLS Peer-Review Process

CLS peer review is the evaluation of proposals for experiments at the CLS by people with similar competencies as the spokesperson. It is designed to assess the scientific merit of a proposed experiment, with the ultimate purpose of awarding beamtime to the highest-quality proposals, **emphasizing the excellence of science where there is intent to publish scientific results.**



Call for Proposals

Open twice a year Jan/Feb for July-Dec beamtime July/Aug for Jan-June beamtime

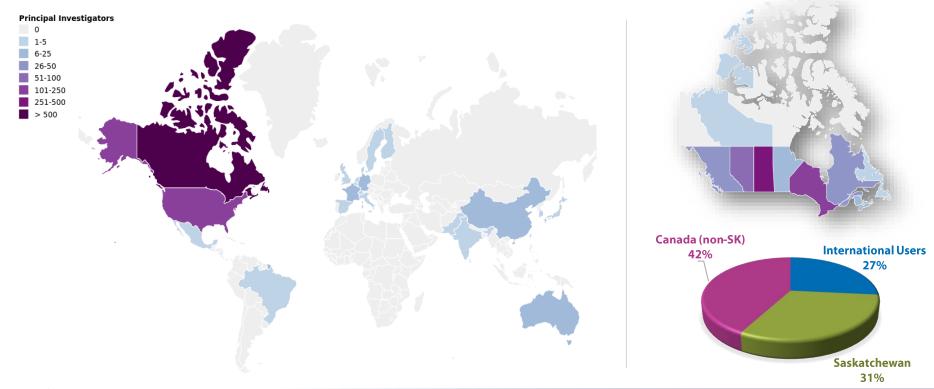
Reviews

Technical Review for suitability/feasibility of proposals and capability of researchers Scientific Merit scored by external peer reviewers

• Scientific Merit score used to rank proposals for beamtime allocation

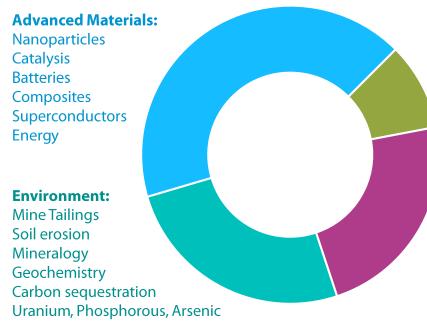


Our User Community





Research Applications & Results



CLS Projects (based on data from 2017-2021)

Agriculture:

Soil Health Plant Science Animal Feed Food Sciences

Health:

Cystic Fibrosis
Multiple Sclerosis
Arthritis
Osteoporosis
Parkinson's
Breast Cancer
Drug development /
Pharmaceuticals



3600+
PEER-REVIEWED

ARTICLES



1600+
PROTEIN DATA BANK
DEPOSITS



800+
GRADUATE
THESES

And counting...

