



**Digital Research
Alliance** of Canada

**Alliance de recherche
numérique** du Canada

Waterloo User Meeting

Thursday, Sept. 17, 2026



Today's updates

- Resource Allocation Competition
- Cluster system status
- Training events
- General Support, etc.

- **Q&A**

RAC Application

https://docs.alliancecan.ca/wiki/Resource_Allocation_Competition

Resource Allocation Competitio

docs.alliancecan.ca/wiki/Resource_Allocation_Competition

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Resource Allocation Competition

(Redirected from RAC)

Other languages: English • français

The Resource Allocation Competition (RAC) enables faculty members and their research groups to access compute, storage and cloud resources beyond what can be obtained via the [Rapid Access Service \(RAS\)](#).

If you are not sure about which application process is best for your project, please email allocations@tech.alliancecan.ca.

You may also wish to consult the RAC [Frequently Asked Questions](#) and [Technical Glossary](#).

Key dates

Event	Date
Resources for Research Groups (RRG) Including Fast Track applications	September 23 to November 3, 2026, until 11:59 PM (EST) <i>(extension of this deadline is not possible)</i>
Research Platforms and Portals (RPP) Including RPP Annual Progress Reports	
RAC general overview information session	September 22 (English) – Register September 24 (French) – Register
Information session about GPU requests	September 25 (French) - Register September 28 (English) - Register
Information session about Cloud requests	October 1 (English) - Register
Announcement of RAC results	Late March 2027
Start of allocations	Early April 2027

Useful RAC documentation

- RAC Application Guide (for RRG and RPP full applications)
 - [Fast Track application guide](#)
 - [Annual RPP progress report guide](#)
- Available resources
- RAC FAQ
- Rapid Access Service

Wiki Main Page

Support

- [Getting an account](#)
- [Getting started](#)
- [Getting help](#)
- [Running jobs](#)
- [System status](#)

Resources

- [Fir](#)
- [Narval](#)
- [Nibi](#)
- [Rorqual](#)
- [Trillium](#)
- [Cloud](#)
- [Killarney](#)
- [tamiA](#)
- [Vulcan](#)
- [Quantum computing](#)
- [Available software](#)

The Alliance

- [Alliance website](#)
- [CCDB](#)
- [Resource Allocation Competition \(RAC\)](#)
- [Acknowledging the Alliance](#)
- [Alliance policies](#)

Legacy resources

- [Béluga](#)
- [Cedar](#)
- [Graham](#)
- [Niagara](#)

Authoring

- [Guidelines](#)
- [MediaWiki Help](#)

 SHARCNET™

 compute | calcul
canada | canada

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System Status

Status | Alliance

status.alliancecan.ca

文学城 - 即时滚动... 加国无忧 - 加拿大... 新浪体育_新浪网 Gmail YouTube Maps Compute Ontario ~... MSN Canada | Outl...

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Digital Research Alliance of Canada

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Partially degraded service
Some services are available with limited access.

 **Operational**  **Available with conditions**  **Outage**  **Scheduled events**  **Decommissioned**

Service	Status	Current incidents
Arbutus ?	✓	
CCDB ?	✓	
Cedar Cloud	✓	
DMP Assistant - L'Assistant PGD ?	✓	
FRDR-DFDR ?	✓	
Fir ?	✓	
Globus Service	✓	
Graham Cloud	✓	

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Clusters

fir.alliancecan.ca

nibi.alliancecan.ca

trillium.alliancecan.ca

rorqual.alliancecan.ca

narval.alliancecan.ca

Access request – CCDB

https://ccdb.alliancecan.ca/me/access_systems

Job status on cluster -- Nibi

<https://portal.nibi.sharcnet.ca/secure/jobstats/jemmyhu>

- **Nibi** general purpose cluster designed for a variety of workloads
<https://docs.alliancecan.ca/wiki/Nibi>

nodes	cores	available memory	CPU	GPU
700	192	768 GB	2 x Intel 6972P @ 2.4 GHz, 384MB cache L3	-
10		6 TB		
36	112	2 TB	1 x Intel 8570 @ 2.1 GHz, 300MB cache L3	8 x NVidia H100 (80 GB memory)
6	96	512 GB	4 x AMD MI300A @ 2.1GHz	4 x AMD CDNA 3 (unified memory: 512 GB HBM3 total)

Storage: Parallel storage: 25 petabytes, all SSD flash from [VAST Data](#) for home, project and scratch.

SHARCNET Training 2025 / 2026



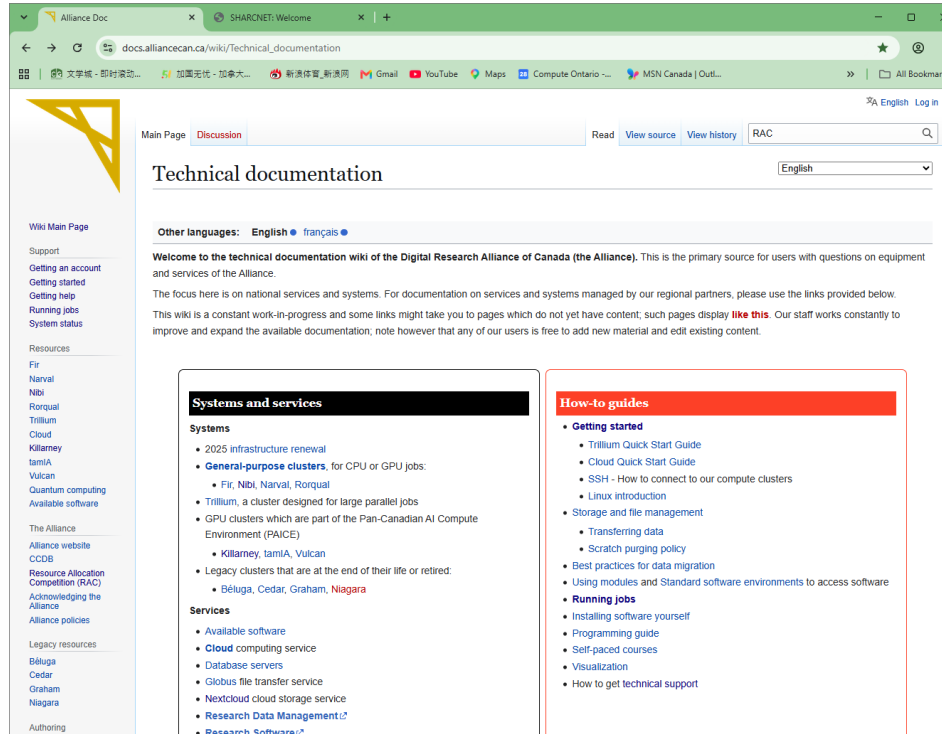
In Fall 2025 / Winter 2026 semesters, the bulk of training provided by SHARCNET to our users is comprised of a series of independent, self-contained workshops on a wide range of topics pertaining to Advanced Research Computing. The courses are delivered online live on Tuesdays and Fridays from 1:00pm - 2:00pm ET. (Some of these courses are also available as self-paced courses.) An Alliance account is required to register for and attend these courses.

Upcoming live courses:

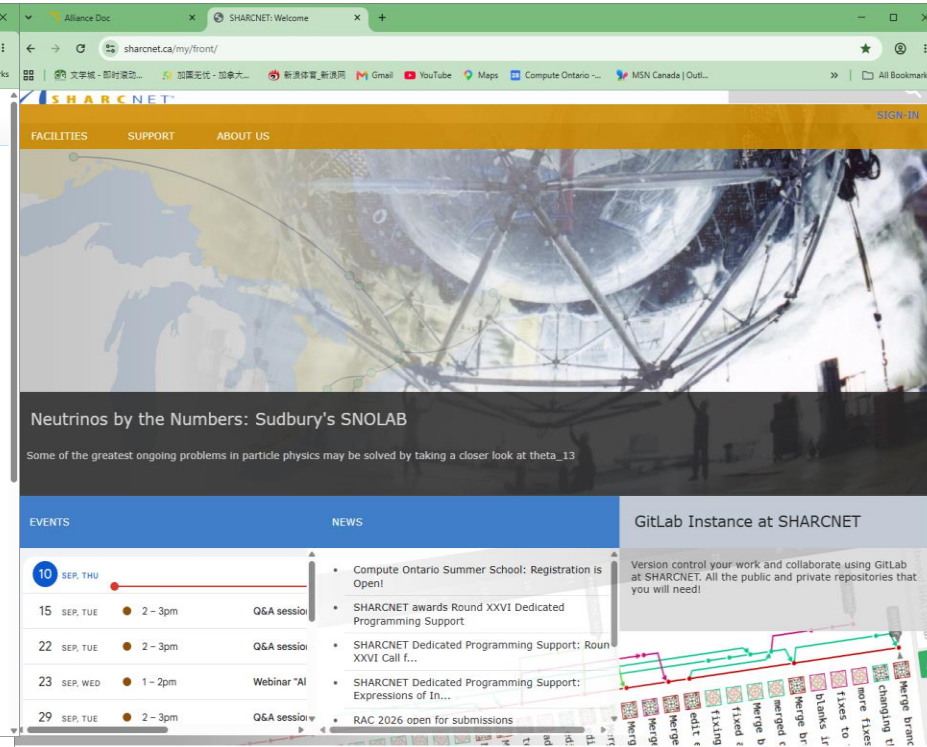
- **Python for High Performance Computing**: Oct. 14, 17, 21, 24
- Mastering GPU Efficiency: Oct. 28, Nov. 4
- A Practical Guide to Windows Subsystem for Linux (WSL): Nov. 7, 11
- Mastering the Alliance job scheduler: Nov. 14, 18, 21
- Working with Jupyter on the Clusters: Nov. 25, 28
- Engineering Software: Dec. 2, 5
- Introduction to GPU Programming: Dec. 9, 12, 16, 19
- Introduction to Supercomputing: Jan. 6, 9, 20, 23, Feb. 3, 6, Mar. 3, 6, 17, 20
- Visualization: Jan 13, 16
- C++: Jan. 27, 30, Feb. 10, 13
- Using Pytorch on the Clusters: Feb 17, 20, 24, 27
- Introduction to CMake: Mar. 10, 13
- Introduction to MPI for Distributed Computing: Mar. 24, 27, 31, Apr. 7

Source of information

- Ticketing system, email to support@tech.alliancecan.ca
- Staff contact info on <https://www.sharcnet.ca/> (phone/office visit)



The screenshot shows the 'Technical documentation' page on the SHARCNET wiki. The page is titled 'Technical documentation' and has a search bar. It includes a sidebar with links to 'Main Page', 'Discussion', 'Read', 'View source', and 'View history'. The main content area is divided into two columns: 'Systems and services' and 'How-to guides'. The 'Systems and services' column lists various systems and services, including '2025 infrastructure renewal', 'General-purpose clusters', 'Tritium', 'GPU clusters', and 'Legacy clusters'. The 'How-to guides' column lists guides for 'Getting started', 'Storage and file management', 'Running jobs', and 'How to get technical support'.



The screenshot shows the SHARCNET website home page. The page features a large header image of a satellite dish. Below the header, there is a section titled 'Neutrinos by the Numbers: Sudbury's SNOLAB' with a brief description. The page also includes a 'NEWS' section with a list of recent news items, a 'GitLab Instance at SHARCNET' section, and a 'FACILITIES' section. The bottom of the page features a navigation bar with links to 'FACILITIES', 'SUPPORT', and 'ABOUT US'.

https://docs.alliancecan.ca/wiki/Technical_documentation

<https://www.sharcnet.ca/>

Q & A