

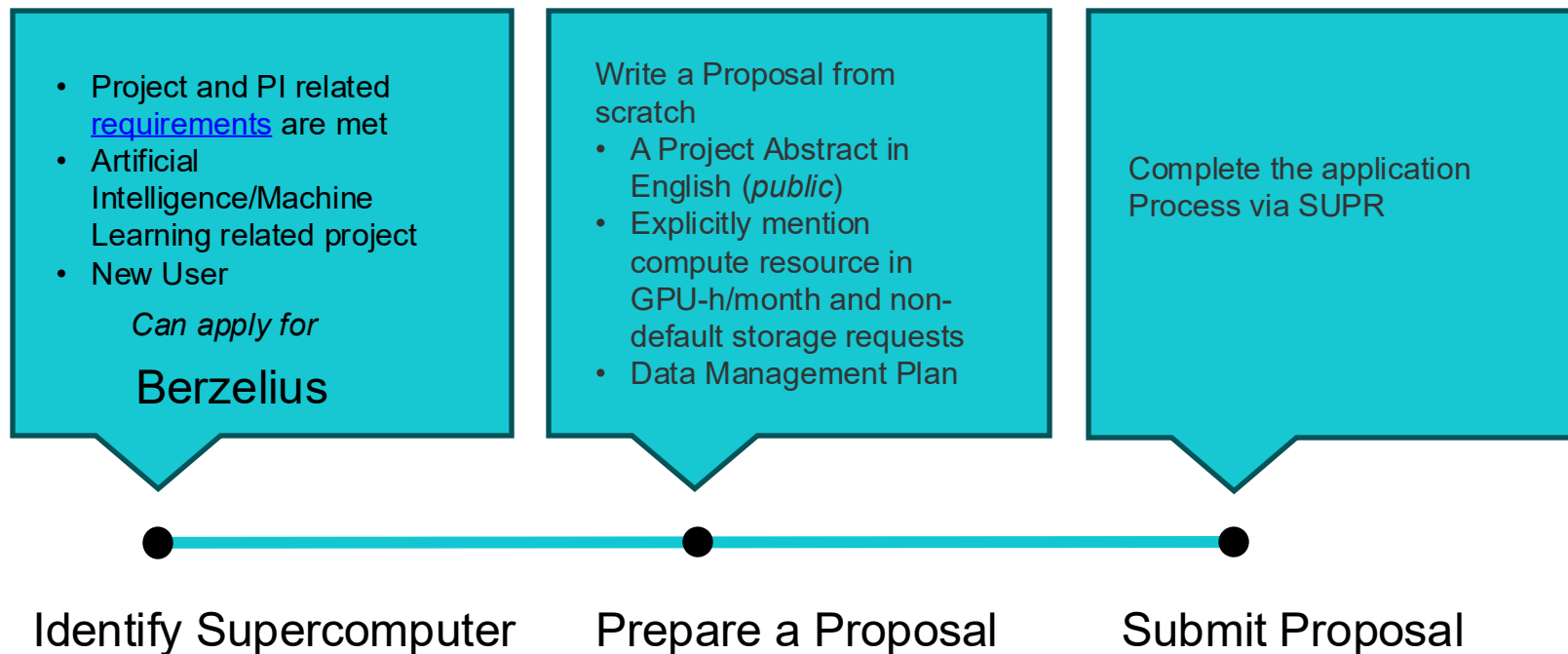
How to Apply for a Project on Berzelius @NSC via SUPR: A Simple Example

National Supercomputer Centre (NSC)
1 September 2025

Application Pathway: From Eligibility to Final Submission

A researcher in Swedish Academia can apply if the person is

- at least as academically senior as an assistant professor and
- affiliated with the Knut and Alice Wallenberg foundation (KAW)



Compute Resources

- Maximum allowed request: 28,800 GPU-h/month (equivalent to 40 GPUs full-time or 5 DGX-A100 systems)
- “Small” projects (≤ 240 GPU-h/month)

Storage Resources

- The default allocation is 2,000 GiB and 2 million files.
- Only non-default storage and file number requests need to be specified.

Default maximum project duration:
6 months

Select AI/ML Round on SUPR

Start / Rounds

Rounds

Resources are made available through rounds, in which projects proposals are made. First, you need to select the type of round to use:

Compute Rounds Access to general resources for high performance computing. Go to Compute Rounds	Storage Rounds Access to storage resources at centres and nation-wide. Go to Storage Rounds	LUMI Rounds Access to the Swedish part of the LUMI high performance computing and storage resources. Go to LUMI Rounds
AI/ML Access to resources specifically for AI and Machine Learning. Go to AI/ML Rounds	NAISS SENS Access to HPC resources specifically for analyzing sensitive data. Go to NAISS SENS	Swedish Science Cloud Access to NAISS cloud resources. Go to Swedish Science Cloud


You can also [view all rounds](#) (including closed and decided).

Logged in as:
Soumi Chaki
(soumi@nsc.liu.se)
Turn on warning colour.

Log-in to [SUPR](#) and Select User -->Rounds

Select **AI/ML Round** for Berzelius & Alvis

Select LiU Berzelius AI/ML Round



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Logged in as:

Soumi Chaki

(soumi@nsc.liu.se)

Turn on warning colour.

AI/ML Rounds

Access to resources specifically for AI and Machine Learning.

AI/ML Alvis

Access to the NAISS AI and Machine Learning resource Alvis is now handled in the NAISS Large, Medium and Small Compute rounds.

Go to Alvis

LiU Berzelius

Access to the Berzelius AI/ML resource. Berzelius is a system donated to NSC by the Knut and Alice Wallenberg Foundation (KAW).

Go to Berzelius

Select **LiU Berzelius** for Berzelius

Create a New Proposal

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Start / Rounds / LiU Berzelius 2025 / Admin

LiU Berzelius 2025

Open for Proposals

Apply to this round for a project on the Berzelius SuperPOD at NSC. Berzelius is not a NAISS system. It is a direct donation to NSC from the Knut and Alice Wallenberg foundation (KAW). Projects with financial support from KAW should have priority according to the donation letter.

To apply, you must be a scientist in Swedish academia, at the level of PhD student or higher.

At present, almost exclusively projects with financial support from KAW are granted due to the high demand from such proposals.

See further information.

Deadlines and Decisions

Handling of projects requesting a default allocation: Proposals requesting a default allocation will normally be handled within a week.

Handling of proposals requesting more than a default allocation: Monthly evaluation of proposals during the year. Proposals submitted at the latest on the 15th will undergo review during the same month.

July and December have different schedules. Proposals submitted after June 15 will be processed in August. i.e. with a first possible allocation starting September 1st for larger than default requests!

This round is open for proposals until 2026-01-01 00:00.

Create New Proposal for LiU Berzelius 2025

Resources

Resource	Centre	Upper Limit	Available	Unit	Note
▶ Berzelius Compute	NSC	28 800	345 600	GPU-h/month	Applications are normally evaluated during the last week each month
▶ Berzelius Storage	NSC	—	931 322	GiB	Applications are normally evaluated during the last week each month.

Click ▶ above to show more information about the resource.

For a new project and/or a new user, select **Create New Proposal for LiU Berzelius 2025.**

Create a Project Proposal



[Start](#) / [Rounds](#) / [LiU Berzelius 2025](#) / [Create New Proposal](#)

Create New Proposal for LiU Berzelius 2025

Checklist

Before creating a new proposal, please consider the points below. Proposals not meeting these requirements cannot be approved.

- You (**Soumi Chaki**) must be the principal investigator (PI) for the proposal.
- You must either be employed at a Swedish university or university college (e.g., PhD student or higher), or a researcher affiliated with a KAW strategic initiative. This must be the case for the entirety of the project duration.
- The proposal must contain all mandatory information.
- The proposal must be submitted before **2026-01-01 00:00**.

Deadlines and Decisions

Handling of projects requesting a default allocation: Proposals requesting a default allocation will normally be handled within a week.

Handling of proposals requesting more than a default allocation: Monthly evaluation of proposals during the year. Proposals submitted at the latest on the 15th will undergo review during the same month.

July and December have different schedules. Proposals submitted after June 15 will be processed in August. i.e. with a first possible allocation starting September 1st for larger than default requests!

This round is open for proposals until 2026-01-01 00:00.

Create Proposal

You may choose to create a proposal from scratch or by cloning information from an earlier proposal.

Alternative 1: Create Proposal from Scratch

To create a proposal from scratch for LiU Berzelius 2025, please start by providing a title for the proposal.

Principal Investigator	Soumi Chaki
Round	LiU Berzelius 2025
Project Title *	<input type="text" value="A mock proposal for application of resources on Berzelius"/>
	<button>Create New Proposal</button>

Alternative 2: Create Proposal Based on Earlier Proposal

To create a proposal for LiU Berzelius 2025 by cloning information from an earlier proposal, please choose an earlier proposals to use as a template.

Principal Investigator	Soumi Chaki
Round	LiU Berzelius 2025
Proposal to Clone *	<input type="text" value="-"/>
	<button>Clone Proposal</button>

For a new project, select
Create Proposal from Scratch

For a continuous project, one
can select **Create Proposal Based on Earlier Proposal**

Check Individual Section of Project Proposal

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Logged in as:

Soumi Chaki

(soumi@nsc.liu.se)

Turn on warning colour.

Start / Proposals / LiU Berzelius 2025 / Berzelius-2025-289 / ▸ Submit / ▸ Admin

A mock proposal for application of resources on B... (Berzelius-2025-289)

Overview

PI Projects Overview

Your proposal has been created. Please continue to fill it out.

Instructions:

Get started by editing the basic information for your proposal below. Change the continuation information if needed. Add any co-investigators you have for your proposal. Finally, submit the proposal (it will not be handled unless you do that).

Information about this round is available at <https://www.nsc.liu.se/systems/berzelius/>.

Proposal

Dnr:

Berzelius-2025-289

State:

Editing (not yet submitted)

Round:

LiU Berzelius 2025

Principal Investigator:

Soumi Chaki

Check Principal Investigator Information

Basic Information

Project Title:

A mock proposal for application of resources on Berzelius

Abstract:

Resource Usage:

Data Management Plan:

Affiliation:

Linköpings universitet

Requested Duration:

6 months

Edit Basic Information

Classification

Scientific

Please provide scientific classification.

Edit Classification

Continuation

This proposal is not registered as a continuation of an earlier project.

Change

Members

When the project is created:

The PI and co-investigators of this proposal will become members of the project.

Check the Individual Sections and Complete them **Before Submission**

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Start with Basic Information

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Logged in as:
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(soumi@nsc.liu.se)
Turn on warning colour.

Start / Proposals / LiU Berzelius 2025 / Berzelius-2025-289 / Edit Basic Information

Edit Basic Information for Berzelius-2025-289

Project Title *

A mock proposal for application of resources on Berzelius

Title of the proposed project

Webpage

URL to project related Web page

Affiliation *

Linköpings universitet

Name of university, institute or similar

Abstract *

A project abstract in English (max 500 words) must be given here. You provide the technical details under **Resource Usage** below.

Please consult the [Resource Allocation Guide](#) if you are unsure about what to enter here. Make sure to clearly state the goal of the project and what impact meeting this goal is expected to have.

Abstract word count: 0

Resource Usage *

Your actual compute resource request is made in the **Resources** section on the main page of your project application. This field describes how you will use that request. You only need to fill this in if you request **more** than the default resource allocation.

Please motivate your requested amount of compute time here in the form of a break-down on how you arrive at this estimate.

Consult the [Resource Allocation Guide](#) if unsure how to do this. Also, be sure to motivate why these resources are needed to your end, what methods and software you will use and why Berzelius is a good match for carrying out your research.

Abridged Data Management Plan *

NB: You are not allowed currently to use sensitive data on Berzelius

Your actual storage resource request is made in the **Resources** section on the main page of your project application. This field describes how you will use that request. You only need to fill this in if you request **more** than the default resource allocation.

Your actual storage resource request is made in the **Resources** section on the main page of your project application. This field describes how you will use that request. You only need to fill this in if you request **more** than the default resource allocation.

If you request **more** than the pre-filled, default storage space and number of files, providing a data management plan is mandatory. This should contain an estimate on how the storage space will be used and what will happen to the data and results after the project ends.

The data management plan should contain:

- An estimate of the number of data sets used, as well as their size and number of files.
- An estimate on any other significant storage needs with respect to size and number of files.
- If significant developments over time with respect to the data storage requirements are expected during the project, please describe these.
- A description on how the data will be handled at the end of the project. If the data can not be safely deleted (that is, the data is precious), a reasonable plan for its transfer to other place must be presented.

Additionally, we encourage you to consider using [Berzelius Common Datasets](#) for your research. These datasets are hosted on Berzelius and can help reduce the need for excessive storage requests by minimizing data duplication. When preparing your Data Management Plan, please evaluate whether any of these common datasets meet your project's needs, which may help optimize your storage resource allocation.

Requested Duration and Start Date

Requested Duration *

6 months

Requested Start Date

Use format "YYYY-MM-DD". If you leave it blank, it means as soon as possible.

Financial Support

How is the project financed? Provide the names of each funding source from which you have received funding relevant for the project, and the associated project titles and grant numbers.

Be sure to include any financial support from KAW as those have priority on Berzelius.

Proposal Visibility

By default, only the Principal Investigator and the Proxy (if assigned) may view the full proposal (as opposed to basic information such as the name and title). Check the box below to allow all Co-Investigators to view full proposal information.

Co-Investigators May View

☐

Save Changes

Important fields
are marked

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Select the Individual Resources Fields to Edit

Classification

Scientific

Please provide scientific classification.

[Edit Classification](#)

Continuation

This proposal is not registered as a continuation of an earlier project.

[Change](#)

Members

When the project is created:

- The PI and co-investigators of this proposal will become members of the project.

Co-Investigators

There are no co-investigators for this proposal.

If you want to designate a proxy, you need to add that person as a co-investigator first.

[Add Co-Investigator](#)

Resources

Click on the linked resource name below to show more information about the resource in this proposal.

Resource	Centre	Requested	Unit	Requested Unit
Berzelius Compute	NSC	240	GPU-h/month	
Berzelius Storage	NSC	2 000	GiB	2 000 000 files

Directory Name

You have not yet selected a directory name for project storage.

[Select Directory Name](#)

Cancellation

If you do not intend to submit the proposal for consideration, you can cancel it using the button below.

[Cancel the Proposal](#)

Submission

You need to submit the proposal if it is to be taken into consideration for allocation.

The submission deadline is 2026-01-01 00:00.

[Submit the Proposal](#)

Edit the Berzelius Compute Resource



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Soumi Chaki
(soumi@nsc.liu.se)
[Turn on warning colour.](#)

Start / Proposals / LiU Berzelius 2025 / Berzelius-2025-289 / Berzelius Compute / Edit

Edit Resource Berzelius Compute @ NSC for Berzelius-2025-289

[Berzelius Compute](#) is a resource at [NSC](#). The total capacity allocated in this round is 345 600 GPU-h/month. The round upper limit is 28 800 GPU-h/month.

Berzelius is an NVIDIA SuperPOD consisting of 94 DGX-A100 nodes, sporting a total of 752 NVIDIA A100 GPUs.

The SuperPOD uses the SLURM resource manager and job scheduler. The original 60 DGX-A100 nodes have 8x NVIDIA A100 GPUs (40GB), 128 CPU cores (2x AMD Epyc 7742), 1 TB of RAM and 15 TB of NVMe SSD local disk. The 34 newer DGX-A100 nodes have 8x NVIDIA A100 GPUs (80GB), 128 CPU cores (2x AMD Epyc 7742), 2 TB of RAM and 30 TB of NVMe SSD local disk. High performance central storage is available using 4x AI400X and 2x AI400X2 from DDN, serving 1.5 PB of storage space to all nodes of the cluster. All DGX-A100 GPUs have dedicated Mellanox HDR InfiniBand HBAs, that is, there are 8 Mellanox HDR HBAs per DGX-A100 node, connected in a full bisection bandwidth, fat-tree topology.

Please note: Submit your proposal at least one week before the end of a month to be considered for an allocation from the first of the following month. Received proposals will be evaluated against each other and time that become available as project ends at the end of a month will be allocated to the proposed projects accordingly.

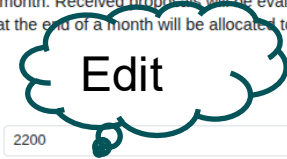
Requested Capacity *

Requested *

2200

GPU-h/month

[Save Changes](#)



Complete Resources Section & Submit

Classification

Scientific

Please provide scientific classification.

Edit Classification

Continuation

This proposal is not registered as a continuation of an earlier project.

Change

Members

When the project is created:

The PI and co-investigators of this proposal will become members of the project.

Co-Investigators

There are no co-investigators for this proposal.

If you want to designate a proxy, you need to add that person as a co-investigator first.

Add Co-Investigator

Resources

Click on the linked resource name below to show more information about the resource in this proposal.

Resource	Centre	Requested	Unit	Requested Unit
Berzelius Compute	NSC	240	GPU-h/month	
Berzelius Storage	NSC	2 000	GiB	2 000 000 files

Directory Name

You have not yet selected a directory name for project storage.

Select Directory Name

Cancellation

If you do not intend to submit the proposal for consideration, you can cancel it using the button below.

Cancel the Proposal

Submission

You need to submit the proposal if it is to be taken into consideration for allocation.

The submission deadline is 2026-01-01 00:00.

Submit the Proposal

Edit the Berzelius Storage Resource

&

Submit the Completed Proposal



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Logged in as: Soumi Chaki (soumi@nsc.liu.se)

Turn on warning colour.

Start / Proposals / LiU Berzelius 2025 / Berzelius-2025-289 / Berzelius Storage / Edit

Edit Resource Berzelius Storage @ NSC for Berzelius-2025-289

Berzelius Storage is a resource at NSC. The total capacity allocated in this round is 931 322 GiB.

High performance central storage is available using 4x AI400X and 2x AI400X2, serving a total of 1.5 PB of storage to all nodes of the cluster via a dedicated InfiniBand interconnect. Aggregate read IO performance is 320 GB/s from the central storage and the dedicated data interconnect bandwidth per node is 25 GB/s.

NSC centre storage (as available on Tetralith) is not accessible on Berzelius.

Please note: Submit your proposal at least one week before the end of a month to be considered for an allocation from the first of the following month. Received proposals will be evaluated against each other and time that become available as project ends at the end of a month will be allocated to the proposed projects accordingly.

Requested Capacity *

Requested * 2000 GiB

Requested * 2000000 files

Save Changes

Edit

For Additional Help

-  berzelius-support@nsc.liu.se
- Look at approved [proposals](#) for inspiration
- Explore documentation on NSC website on [Berzelius](#)
- **SUPR**



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Logged in as:

Soumi Chaki

(soumi@nsc.liu.se)

[Turn on warning colour.](#)

Use this form to request support for NAISS systems and services (including the SUPR portal itself). If you have multiple issues that are not related, please use the form multiple times, once for each issue.

Replies will be sent to your registered email address soumi@nsc.liu.se. If it is wrong, please [change it](#) (and confirm it using the email you get) before submitting a support request here.

Problem Type

Select the problem type that best describes what you want support for. If no other type is appropriate, select **Other issues**.

(select problem type)

Centre and Resource

If your problem is related to a specific resource at a centre, select that. If your problem is related to multiple resources at a centre (or no resource listed here at all), select the centre and mention the resources in the problem description below.

(select centre or resource)

Project

If your problem is related to a specific project, select that.

(no project found)

✓ (select centre or resource)

- C3SE
 - Alvis
 - Cephyr BACKUP
 - Cephyr NOBACKUP
 - Mimer
 - Vera
 - Cstor no-backup
 - Hebbe
- HPC2N
 - Kebnekaise
 - Kebnekaise GPU
 - Kebnekaise Large Memory
- LUMI Sweden
- LUNARC
 - Aurora
 - Centrestorage nobackup
 - COSMOS
 - Erik
- NSC
 - **Berzelius Compute**
 - Berzelius Storage
 - Centre Storage
 - Sigma
 - Tetralith