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

National Supercomputer Centre (NSC)
1 September 2025

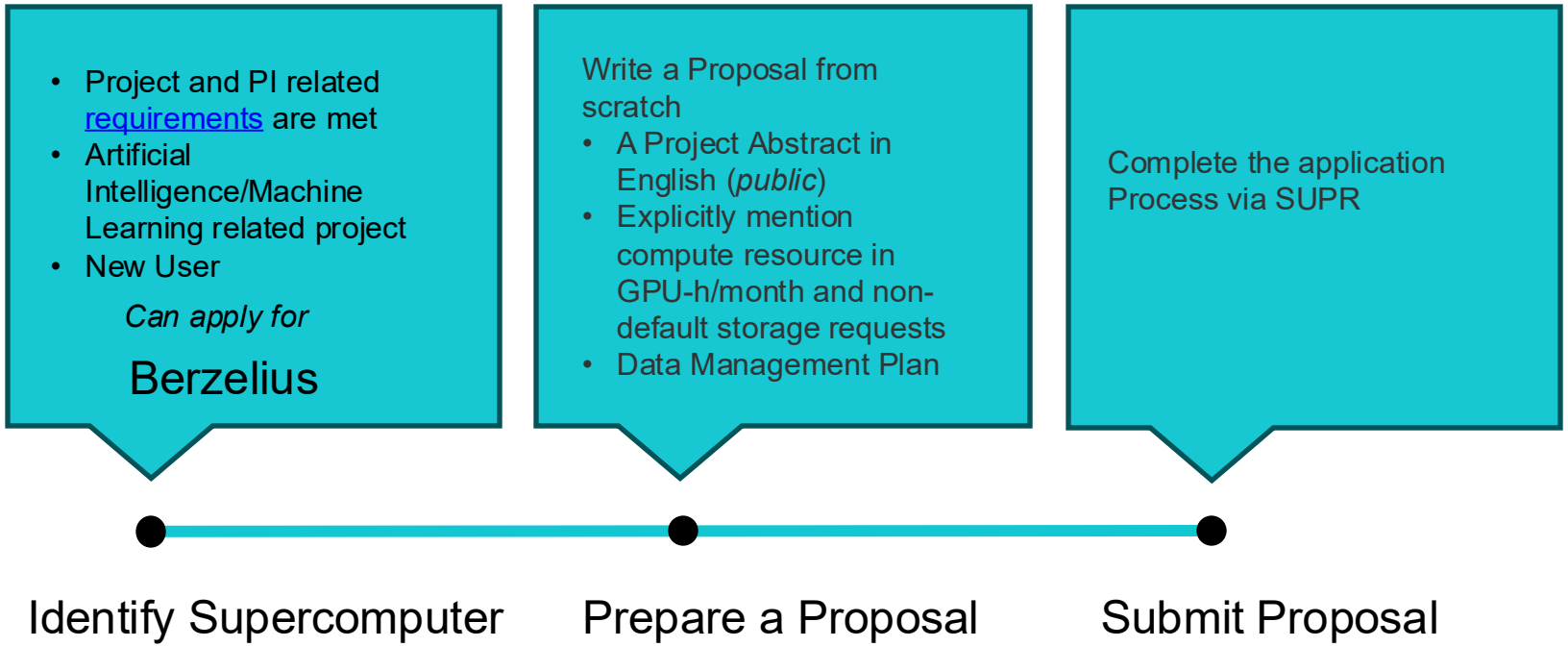
LINKÖPING UNIVERSITY

NSC

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

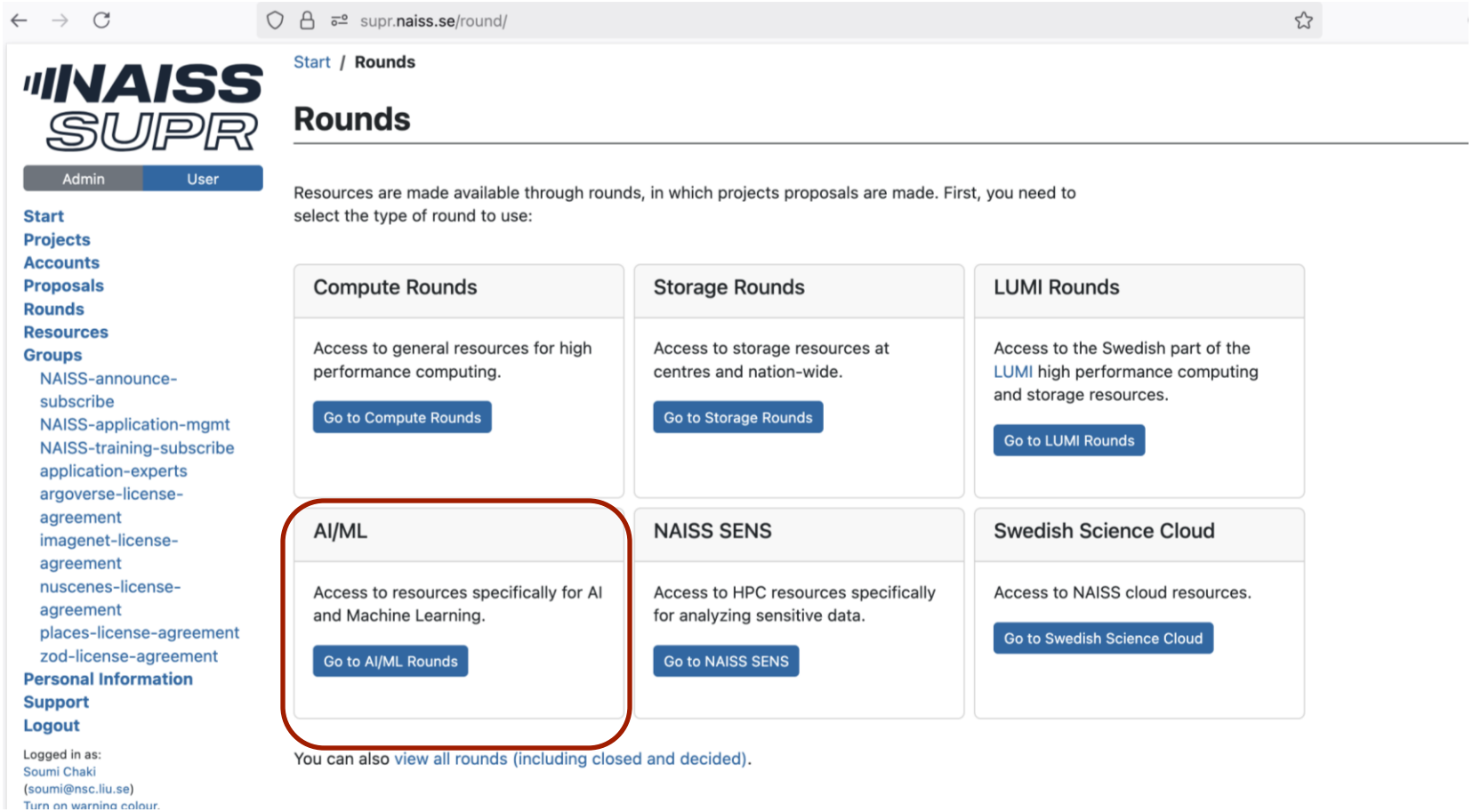
- Maximum allowed request: 28,800 GPU-h/month (equivalent to 40 GPUs full-time or 5 DGX-A100 systems)
- "Small" projects (≤ 240 GPU-h/month)

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

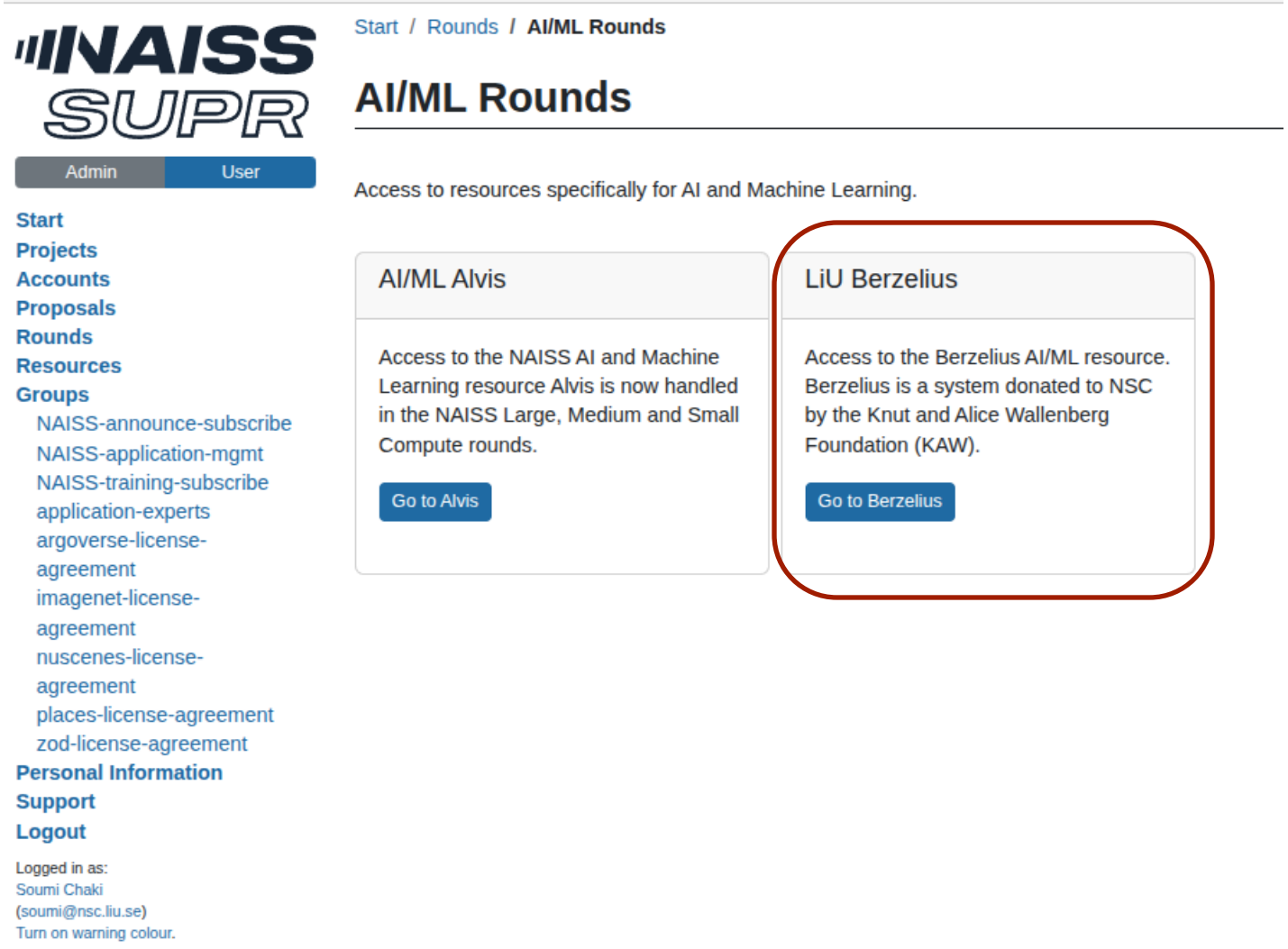
Select AI/ML Round on SUPR



Log-in to **SUPR** and Select **User -->Rounds**

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

Select LiU Berzelius AI/ML Round

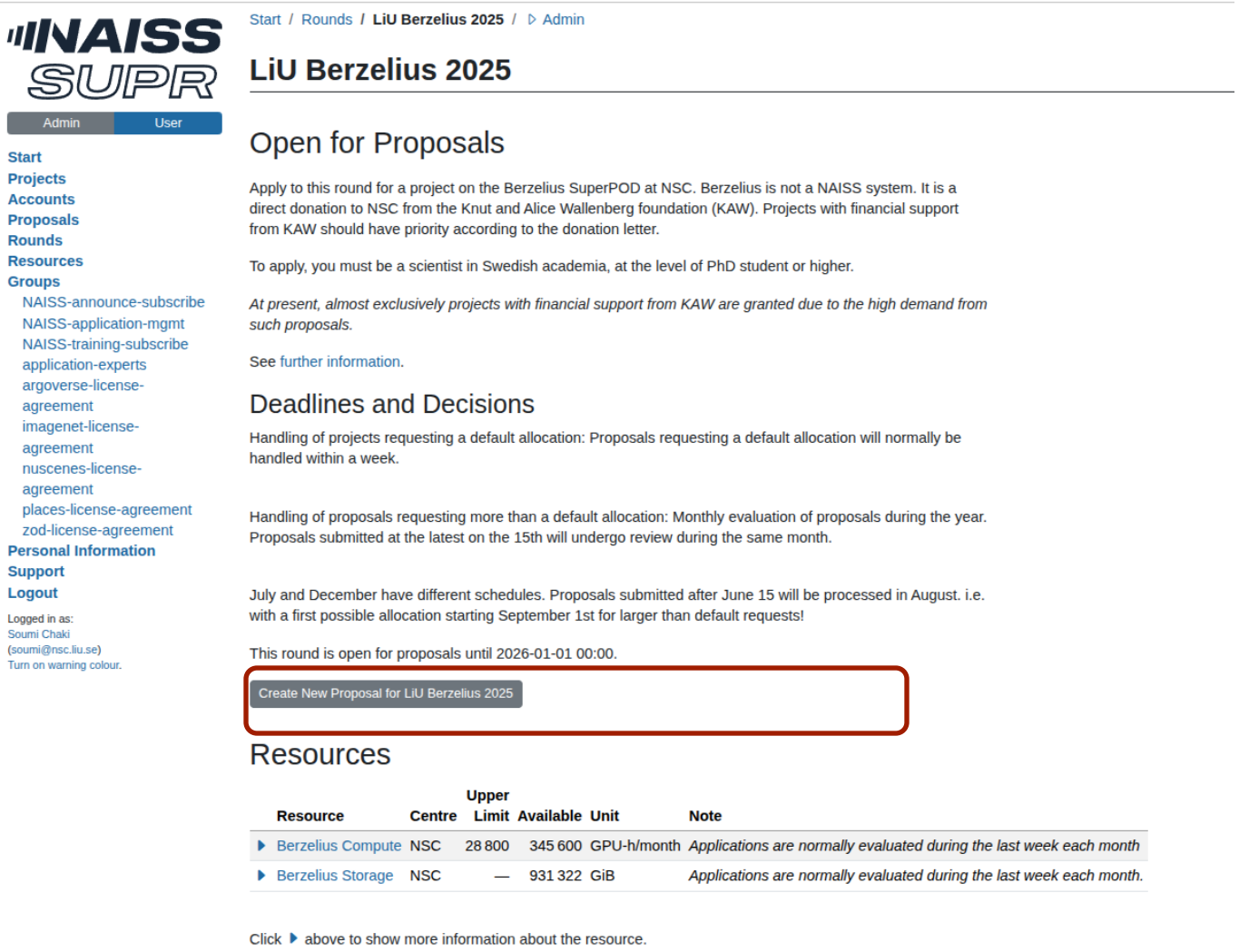


Select **LiU Berzelius** for Berzelius

LINKÖPING UNIVERSITY

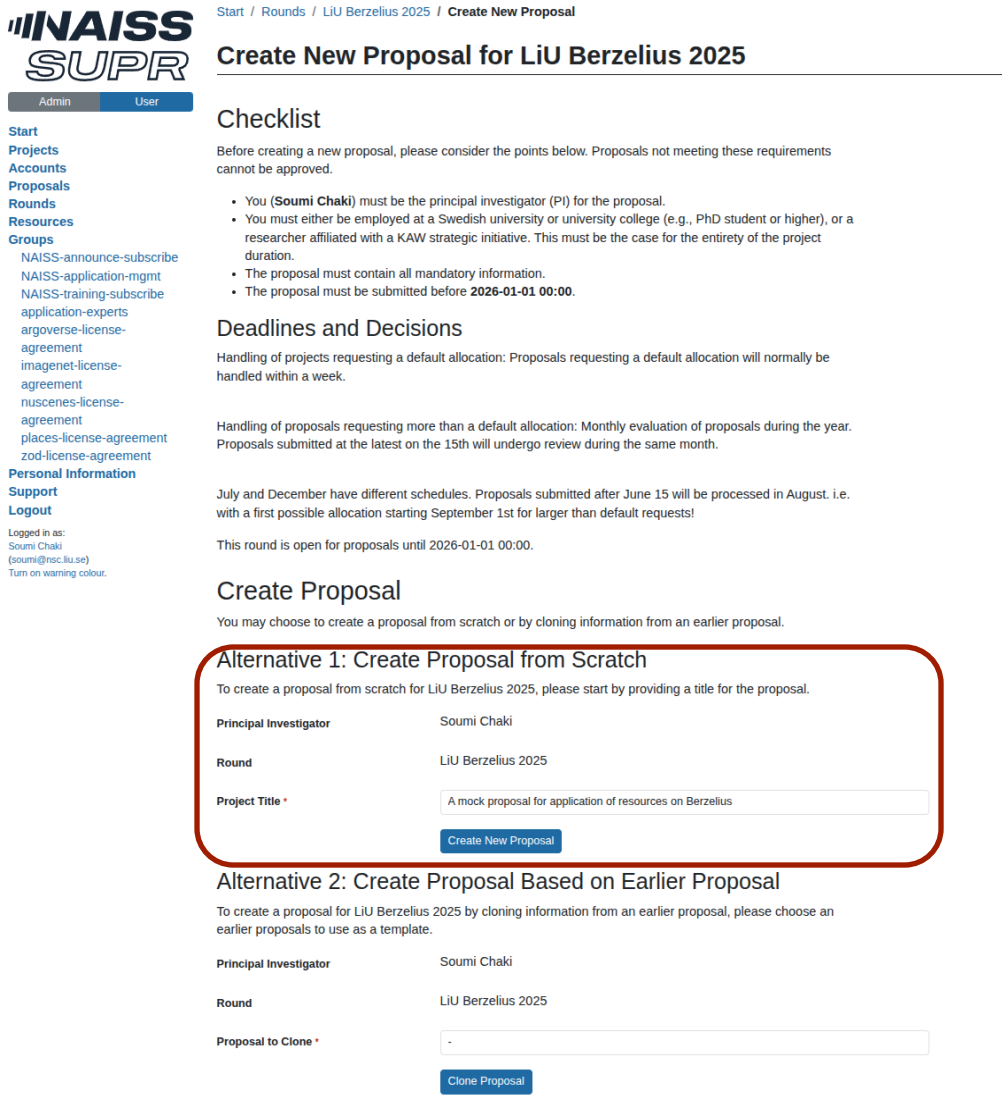
NSC

Create a New Proposal



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

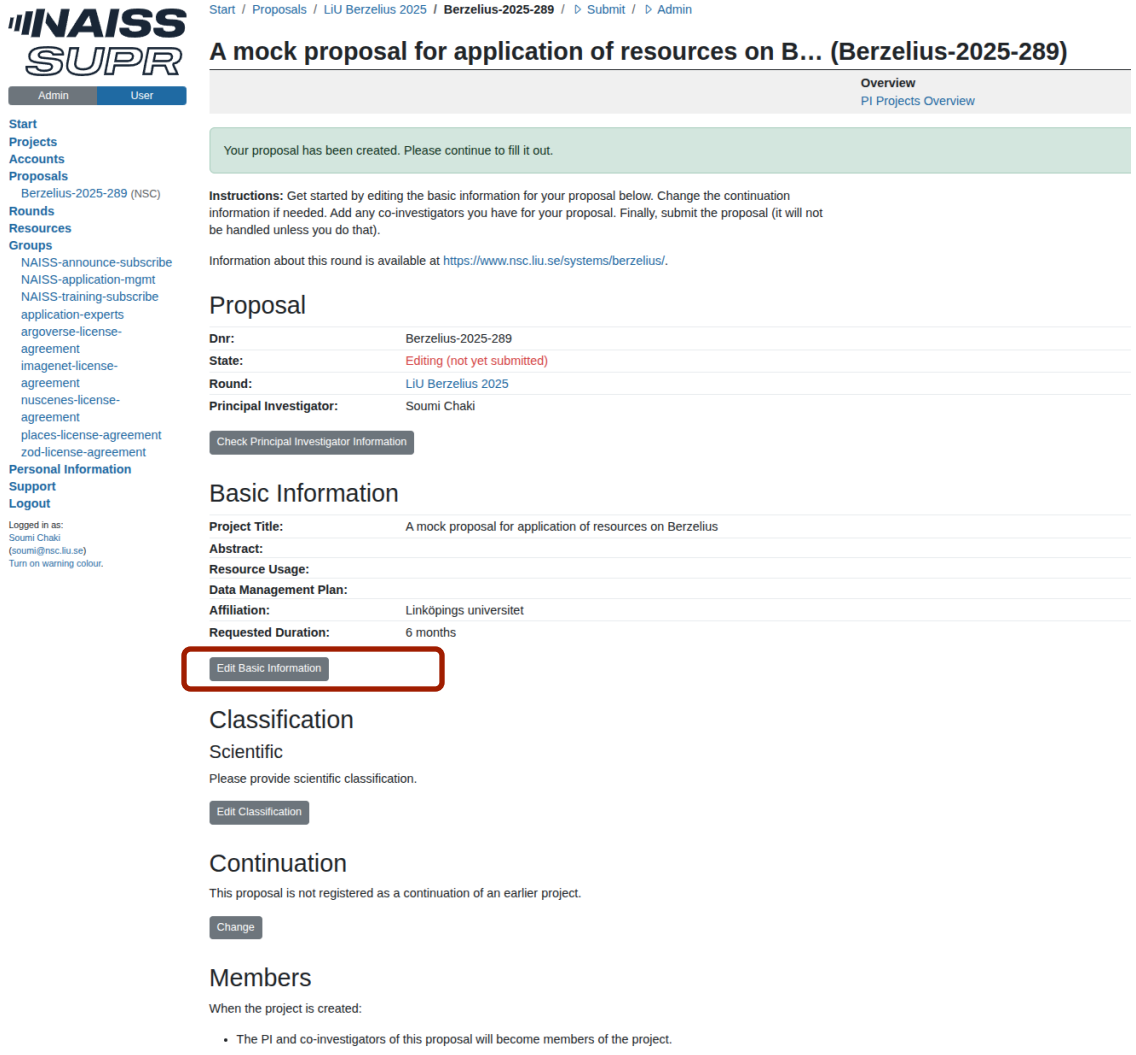
Create a Project Proposal



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

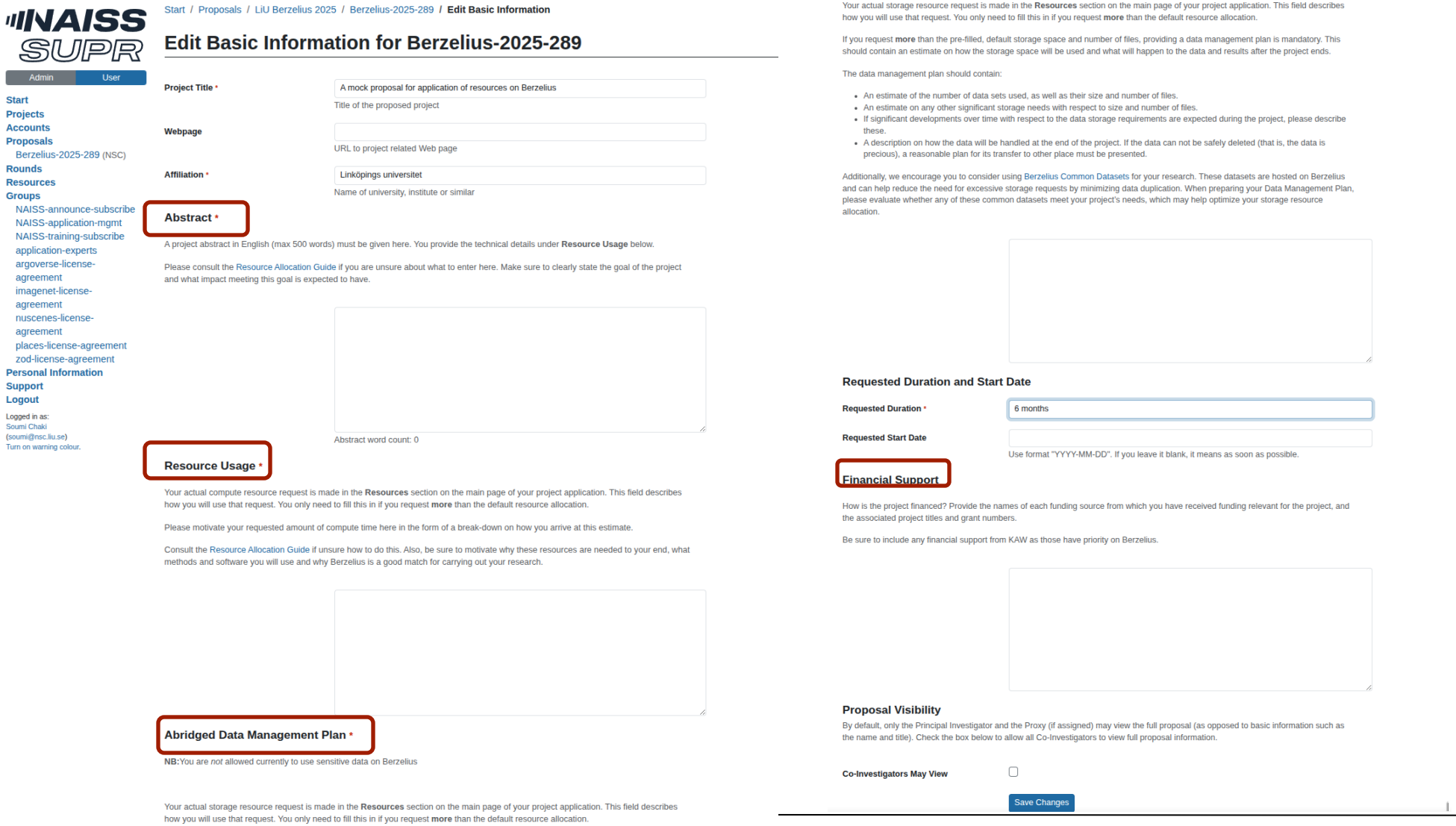


Check the Individual Sections and **Complete** them ***Before*** **Submission**

LINKÖPING UNIVERSITY

NSC

Start with Basic Information



Important fields are marked

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

NAISS SUPR

Admin | User

- Start
- Projects
- Accounts
- Proposals
  - Berzelius-2025-289 (NSC)
- Rounds
- Resources
- Groups
  - NAISS-announce-subscribe
  - NAISS-application-mgmt
  - NAISS-training-subscribe
  - application-experts
  - argoverse-license-agreement
  - imagenet-license-agreement
  - nuscenes-license-agreement
  - places-license-agreement
  - zod-license-agreement
- Personal Information
- Support
- Logout

Logged in as:
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.

Edit

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.

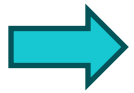
The submission deadline is 2026-01-01 00:00.

Submit the Proposal

Edit the **Berzelius Storage** Resource

&

Submit the *Completed* Proposal



NAISS SUPR

Admin | User

- Start
- Projects
- Accounts
- Proposals
  - Berzelius-2025-289 (NSC)
- Rounds
- Resources
- Groups
  - NAISS-announce-subscribe
  - NAISS-application-mgmt
  - NAISS-training-subscribe
  - application-experts
  - argoverse-license-agreement
  - imagenet-license-agreement
  - nuscenes-license-agreement
  - places-license-agreement
  - zod-license-agreement
- Personal Information
- Support
- Logout

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

Edit

Save Changes

For Additional Help

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