



NAISS Allocations

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Peter Münger, NAISS and NAC-WG

NAISS

Outline

- Available resources
- Migrated allocations
- Available application rounds and calls
- New structure for application rounds
- Object storage
- NAC and NAC-WG
- The application rounds
- NAISS allocations and usage 2025 in figures

Available resources

NAISS resources

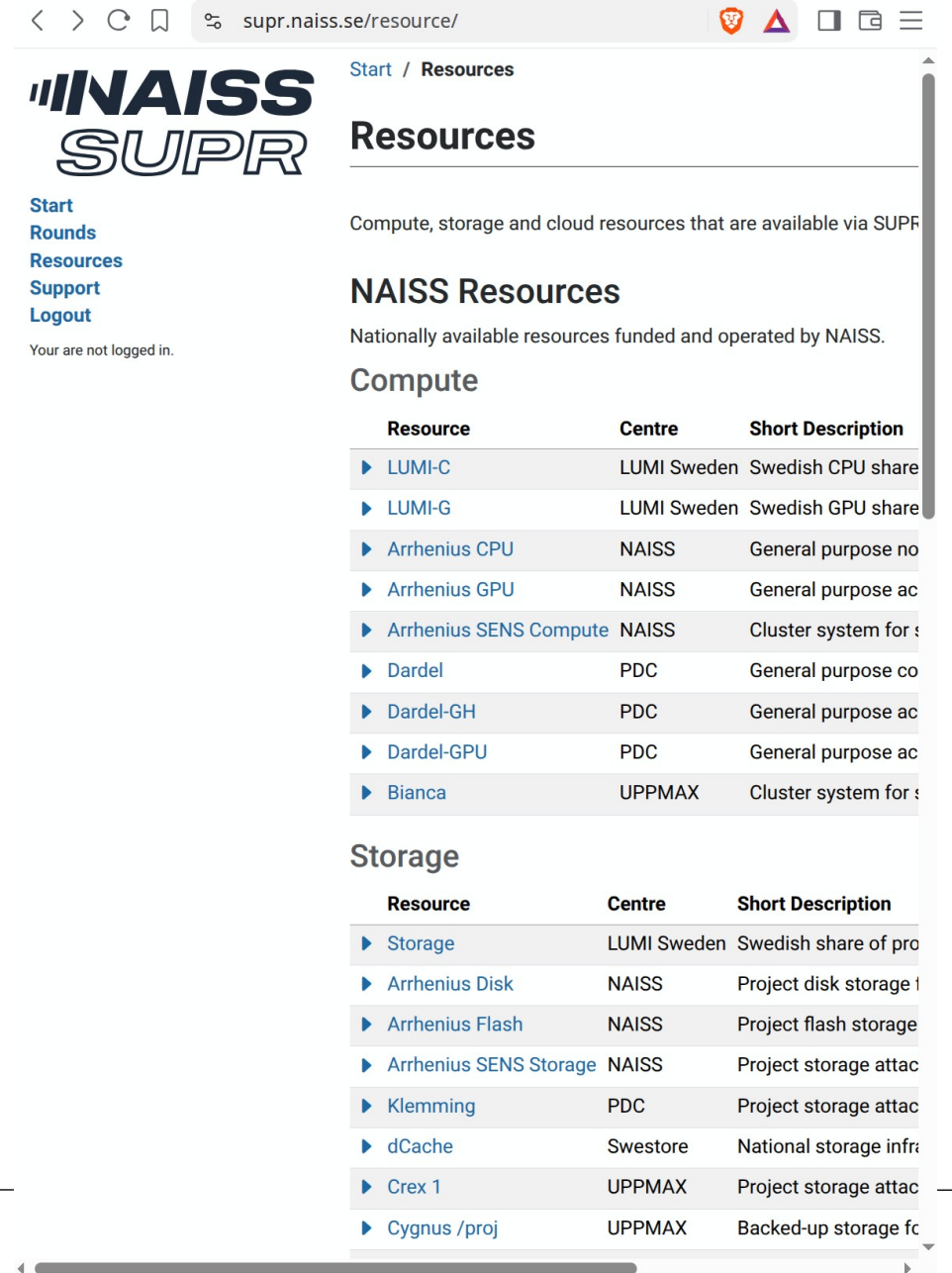
- The Arrhenius system have replaced Alvis, Dardel, Tetralith, SSC and will replace the current SENS in November.
- LUMI Sweden

Special NAISS resource

- Berzelius

EuroHPC resources

- Arrhenius
- LUMI
- Many others



The screenshot shows the NAISS SUPR Resources page. The browser address bar displays 'supr.naiss.se/resource/'. The page has a sidebar with links: Start, Rounds, Resources, Support, and Logout. The main content area is titled 'Resources' and includes a sub-header 'NAISS Resources' with the text 'Nationally available resources funded and operated by NAISS.' Below this, there are two sections: 'Compute' and 'Storage', each containing a table of resources.

Compute

Resource	Centre	Short Description
▶ LUMI-C	LUMI Sweden	Swedish CPU share
▶ LUMI-G	LUMI Sweden	Swedish GPU share
▶ Arrhenius CPU	NAISS	General purpose no
▶ Arrhenius GPU	NAISS	General purpose ac
▶ Arrhenius SENS Compute	NAISS	Cluster system for s
▶ Dardel	PDC	General purpose co
▶ Dardel-GH	PDC	General purpose ac
▶ Dardel-GPU	PDC	General purpose ac
▶ Bianca	UPPMAX	Cluster system for s

Storage

Resource	Centre	Short Description
▶ Storage	LUMI Sweden	Swedish share of pro
▶ Arrhenius Disk	NAISS	Project disk storage i
▶ Arrhenius Flash	NAISS	Project flash storage
▶ Arrhenius SENS Storage	NAISS	Project storage attac
▶ Klemming	PDC	Project storage attac
▶ dCache	Swestore	National storage infr
▶ Crex 1	UPPMAX	Project storage attac
▶ Cygnus /proj	UPPMAX	Backed-up storage fc

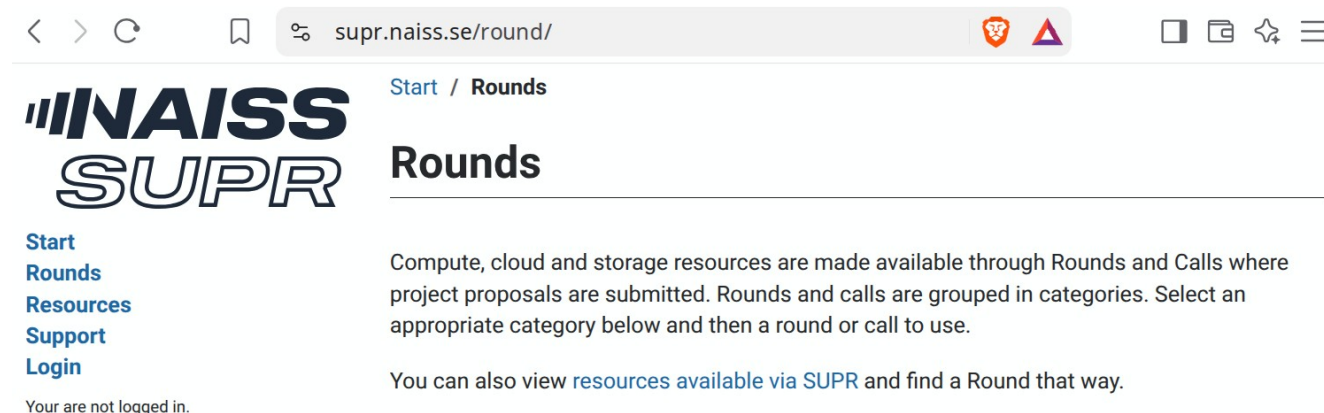
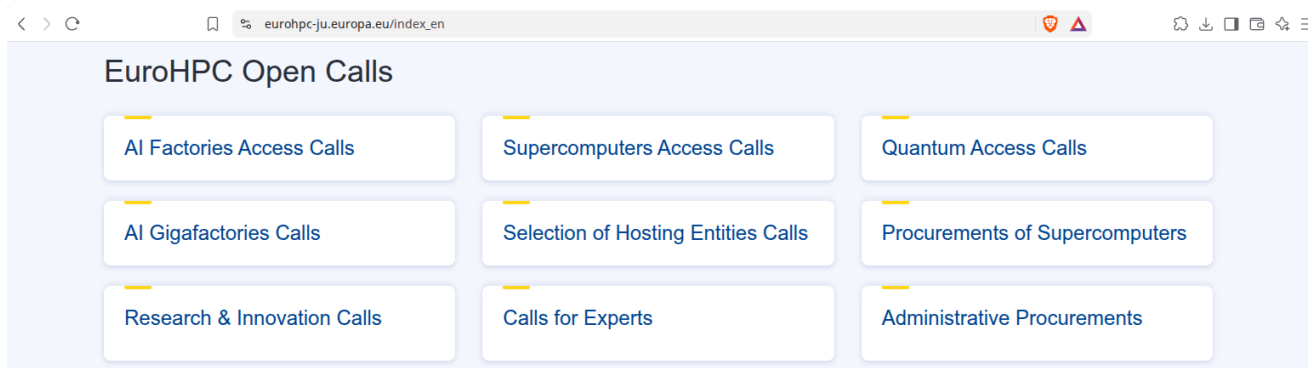
Migrated allocations

Avis	→ Arrhenius GPU:	1.0 → 0.40
Tetralith	→ Arrhenius CPU:	1.0 → 0.28
Dardel	→ Arrhenius CPU:	1.0 → 0.14
Dardel-GPU	→ Arrhenius GPU:	1.0 → 0.40
Dardel-GH	→ Arrhenius GPU:	1.0 → 1.00
SSC	→ Arrhenius PCD:	1.0 → 1.00

Mimer 60%, Centre Storage 40%, Klemming 30%

Application rounds Calls for proposals

- NAISS application rounds
- Berzelius application round
- EuroHPC JU Calls



New structure for NAISS applications 2026

- Not specific rounds for compute, storage, or sensitive data
- Apply for all your scientific need in a single proposal! Combine your scientific projects as sub-projects within a single NAISS Proposal/Project

Why?

- Simplifies for most of our users
- No negative impact for others
- Improved overview
- Less administration

Conclusions from the change

- First implemented for NAISS Large Fall 2025
 - Positive feedback from applicants
 - No increase in questions
 - No increase of problematic proposals
- Implemented for Medium and Small from January first, 2026
 - Positive feedback from applicants
 - Some increase in questions
 - Some increase of problematic proposals
 - A small fraction need help to get the linking correct

Why three categories / how to choose?

- Why Small, Medium, and Large?
- How to select category?
- Look on **total** compute, storage, etc, need
- Chose smallest category in which both compute and storage fit

Special cases

- Handle both non sensitive data and sensitive data
- Independent projects need the same large database

How to merge and continue my current projects?

- Continuation proposals from compute project
 - Add the requested compute resources first
- Storage Takeover from storage project to keep Directory Name

Object storage, October 2025

NAISS will start to offer object storage for a fee

- Maximum SEK 500 / TB-year, hopefully below SEK 300 / TB-year
- Available first quarter 2026
- Minimum fee (SEK 10 000)
- Fast network access
- Single site
- No backup

Object storage

NAISS will start to offer object storage for a fee

- We are looking for a small (5) number of early adopters
- Cost based fee (500 SEK / TB-year?)
- Available autumn 2026
- Minimum fee (SEK 10 000?)
- Fast network access
- Single site
- No backup

NAC and NAC-WG

National Allocation Committee (NAC)

- Overall responsible for NAISS allocations
- Responsible for decisions on NAISS Large and LUMI Sweden calls
- Members appointed by the NAISS steering committee

National Allocation Committee Working Group (NAC-WG)

- Assist NAC
- Responsible for decisions on NAISS Medium and Small calls as well as EuroHPC proposals on NAISS resources
- Appointed among NAISS staff by the NAISS director

Eligibility and responsibility

NAISS is financed by Swedish tax payers with the objective to strengthen science and research in Sweden. The Principal Investigator (PI) must hold an appointment of at least 60 % at a Swedish university or research institution recognized by the Swedish Research Council.

The research supported by these resources must be predominantly carried out in Sweden. This aspect is taken into account during the evaluation and, in the case of strong competition, can be used to prioritize applications.

The PI is responsible for the proposal and usage of any granted resources.

Small (10% of NAISS resources)

- Primarily intended for groups new on NAISS resources, or where with requirements that fit in a small allocation
- At least doctoral student at an eligible Swedish institution
- Continuously open for proposals
- Scientific abstract, resource usage, data management plan
- Handled within a few work days
- Reviewed and decided by NAC-WG

Medium (1/3 of NAISS resources)

- For general use and established groups
- At least assistant professor at an eligible Swedish institution
- Continuously open for proposals
- Scientific abstract, resource usage, data management plan
- Handled at the end of each month
- Reviewed by NAISS application experts
- Decided by NAC-WG

Large (2 x 1/3 of NAISS resources) LUMI Sweden

- For established groups with high demands and a proven track record in computing
- At least assistant professor at an eligible Swedish institution
- Experience as Principal Investigators of HPC resources at least at the Medium level, or a corresponding level abroad
- Two calls each year, Spring and Fall (LUMI only Fall)
- Scientific abstract, uploaded documents:
 - Project description, CV and Publication list

Large continued

- Two scientific peer reviews, one from within NAC and one external
- Technical review by NAC-WG
- Decided by NAC

A PI can not have resources in a Medium project and resources in a Large project simultaneously. Any resources in a Medium project will be terminated prematurely if the PI is granted resources in a Large project.

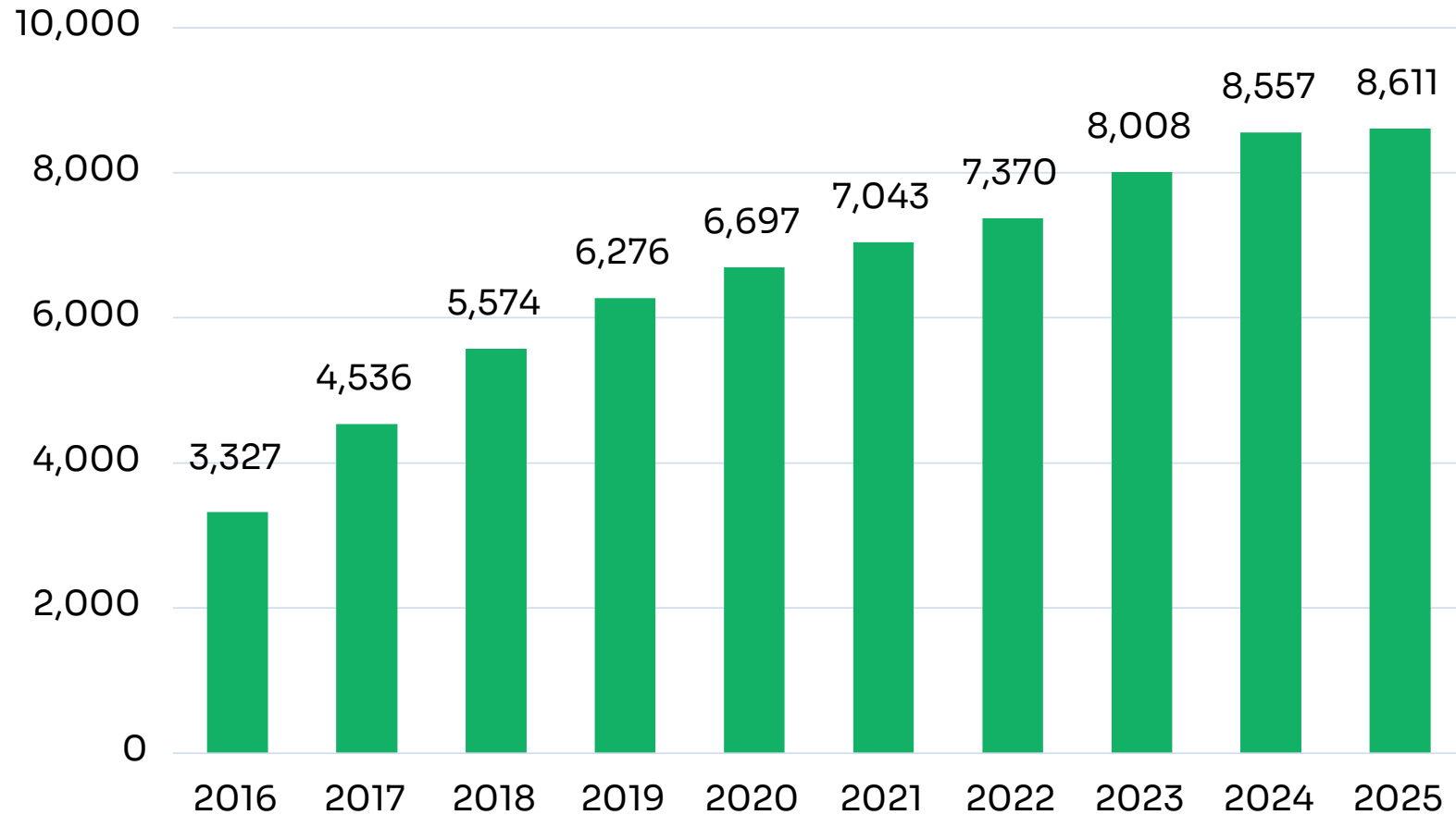
EuroHPC

- Different Calls for different user categories: Larger than available by NAISS, smaller Benchmark and Development Calls, Calls for SMEs
- Eligibility criteria depend on Call
- Between 12 and 2 Cut-offs depending on Call
- Application form depend on Call
- Handling and handling time depend on Call
- Technical review by NAC-WG of requests for NAISS partitions

NAISS allocations in figures 2025

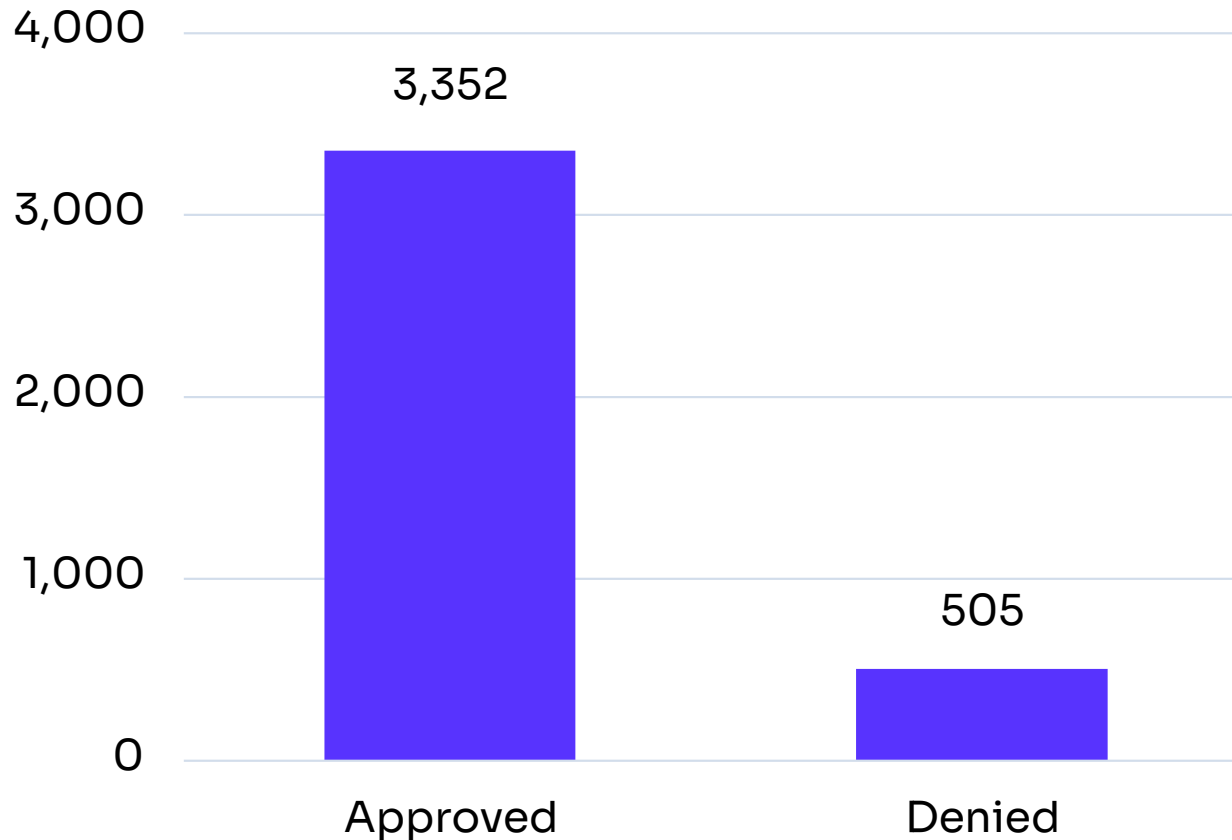
- Number of active users during the last decade
- Success rate of proposals
- Requested versus allocated amount
- Used amount of compute resources per research area
- Used amount of storage resources per research area

Number of active users during the last decade



Number of users associated with at least one active project during each year. Over the last decade, the NAISS user base almost tripled; from 3,327 to a record 8,611 users in 2025.

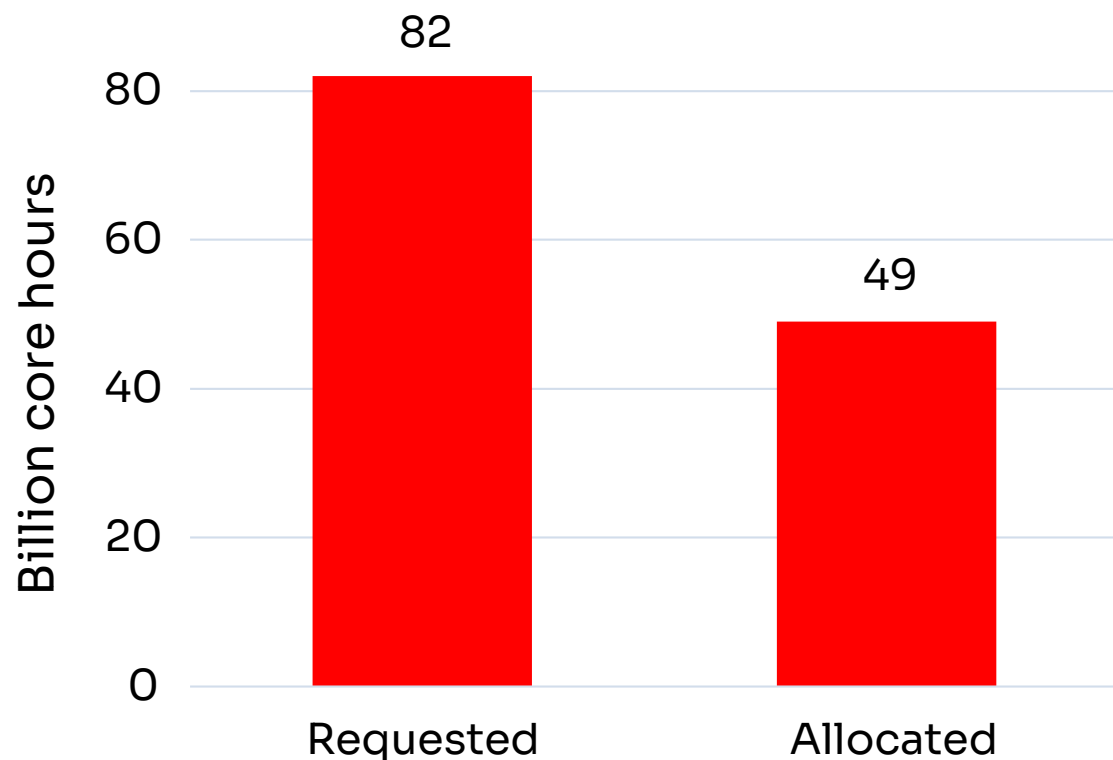
Approved/denied compute proposals 2025



Number of proposals requesting NAISS resources during some part of 2025.

Some proposals were rejected either due to eligibility or because the research project could not justify the resources requested.

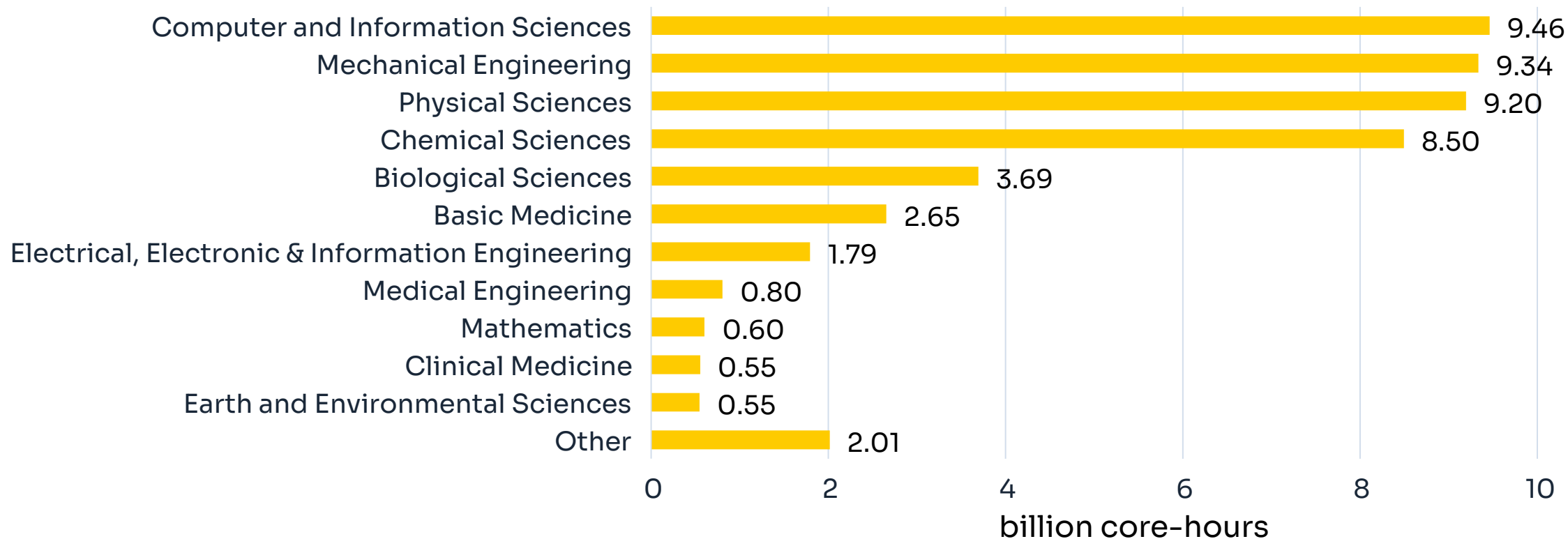
Requested/allocated compute proposals 2025



Requested and allocated compute resources in total on all NAISS resources, normalized to the Dardel CPU performance per core, during the calendar year 2025.

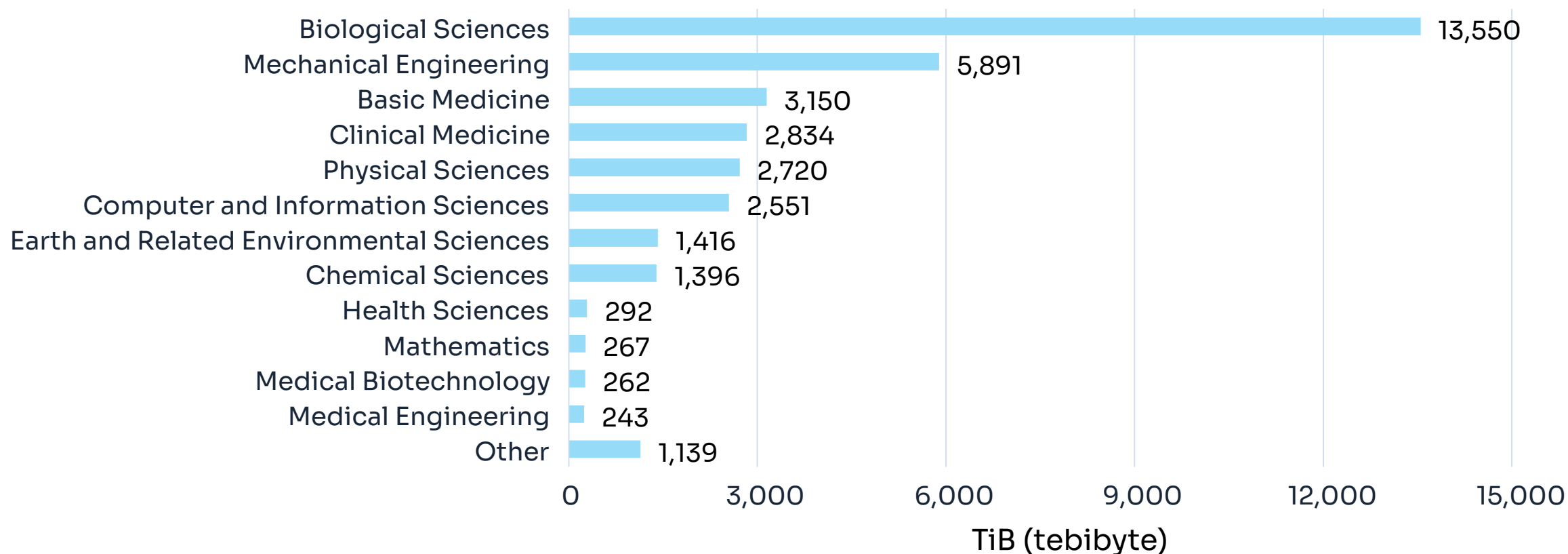
NAISS compute resources are fully allocated.

Used compute resources per research area 2025



Amount of NAISS compute resources used per field, based on the classification codes selected at proposal submission. Many of the applied AI projects across fields are classified as Compute and Information Sciences, which is the reason for its new dominance.

Used storage per research area 2025



Total amount of NAISS storage resources used per field, based on the classification codes selected at proposal submission. The dominance of Biological Sciences is due to sequencing data in general, and sensitive data in particular.



National Academic Infrastructure
for Supercomputing in Sweden

Peter Münger, NAC-WG Chair
peter.munger@naiss.se

naiss.se
info@naiss.se