

## SNIC:s riktlinjer för användare (SNIC 2018/35) SNIC:s guidelines for users

### 1) **SNIC User Guide**

This SNIC User Guide covers requirements, obligations, and information for SNIC users. The User Guide is based upon the recommendations of the Swedish Research Council (*Vetenskapsrådet*). This document is maintained and updated as deemed necessary by the SNIC director.

### 2) **Ethical guidelines**

It is the responsibility of the SNIC user to ensure that research conducted at SNIC resources adheres to Swedish legislation, as demanded by the SNIC User Agreement (Dnr: SNIC 2018/25).

### 3) **Eligible grant administrating organizations**

The Swedish National Infrastructure for Computing (SNIC) is a national research infrastructure that makes available large-scale high-performance computing resources, storage capacity, and advanced user support for researchers at Swedish HEI:s.

### 4) **Commercial terms**

SNIC users may not have known commercial connections conflicting with the requirements of objectivity, independence, and openness. If any commercial connections in lieu with SNIC terms and conditions are at hand, the user, or the grant administrator, should inform SNIC immediately.

SNIC Users are liable to declare in writing commercial interests or connections that may influence project proposals or approved projects in entirety or in part. This is required in order to enable review and assessment of compatibility of aforementioned interests with the requirements regarding objectivity, independence, and openness. Such review and assessment is performed by the SNIC director.

### 5) **Public access**

Proposals for SNIC projects and approved SNIC projects are public documents. Users intending to apply for patents should note that it is not possible to keep SNIC proposals confidential. Information about approved projects is made available via the SNIC website. Sensitive personal information is not published. Research results obtained by using

SNIC resources should be made publicly available. SNIC users are liable for following SNIC demands on objectivity, independence, and openness, as specified above.

## 6) Reporting back to SNIC

The SNIC financiers require that use of SNIC resources and output of granted SNIC projects is reported. Thus, SNIC collects information from SNIC Users regarding the items detailed below. SNIC users must, as called upon by SNIC, provide the information as required by SNIC which contributes to the following reporting.

- a) Number of unique female and male users respectively per HEI, per primary classification of research, as well as how this changes on a yearly basis.
- b) List of scientific publications (including theses and exams), and patents, based upon the use of SNIC resources.
- c) Approved grants (nationally as well as internationally) based upon the use of SNIC resources.

## 7) Acknowledgement of use of SNIC Resources

For publications made possible by the use of SNIC resources, researchers must acknowledge the use of SNIC resources as determined by SNIC. During scientific review, SNAC shall take into account neglect to follow SNIC guidelines regarding acknowledgement of use of SNIC resources.

## 8) Qualification requirements

SNIC provide resources via SNIC Rounds. It is possible to submit proposals for multi-year allocations using the SNIC rounds SNAC Large /SENS Large and SNAC Medium/SENS Medium. The applicant must fulfill the qualification requirements listed below in order to be eligible for allocations within each respective SNIC Round.

- a) **SNAC Large /SENS Large:** The applicant must be at least assistant professor at a Swedish HEI in order to qualify for allocation.
- b) **SNAC Medium/SENS Medium /SSC Medium:** The applicant must be at least assistant professor at a Swedish HEI in order to qualify for allocation.
- c) **SNAC Small/ SENS Small/ SSC Small:** The applicant must be at least doctoral student at a Swedish HEI in order to qualify for allocation.

## 9) Instructions for proposals for SNIC Rounds

### a) SNAC Large /SENS Large:

- i) The proposal should be filled out electronically via <https://supr.snica.se/>.
- ii) The applicant should provide the mandatory information below. Additionally the applicant may provide non-mandatory information using the proposal form.

### iii) Principal investigator information

The PI shall provide the mandatory information regarding the following items.

- (a) Name
- (b) Email
- (c) Position
- (d) Sex
- (e) Department

- (f) Organization
- (g) Primary classification of research

iv) **Basic information**

The applicant is to submit the information required as stated at <https://supr.snic.se/>.

- (a) **Project title**  
Title of the proposed project.
- (b) **Abstract**  
A project abstract in English (max 500 words).

v) **Resource usage**

- (a) Specify and describe the software that will be used. Unless it is centre provided, specify how it is parallelized, and how well and to what extent it scales for the problem sizes that will be studied.
- (b) Motivate answers to the system-specific questions asked per resource. That is, motivate your estimate of typical and maximal number of cores per job, the memory requirements, per core, per node or aggregated as adequate for the particular resource and parallelization scheme. Also, specify the amount and type of storage requested, i.e. fast temporary storage during job execution, short-term storage, and long-term/archiving storage.
- (c) Other specific software and hardware requirements.

vi) **Affiliation**

- (a) Name of university, institute or similar.

vii) **Classification**

- (a) Classify the project according to VR classification codes.

viii) **Specific information**

Specifically for Large rounds the following information is to be provided by the applicant.

- (a) CV of the PI - principal investigator (**Maximum 2 pages.**)
- (b) Publication list of the principal investigator
- (c) SNIC Project Description. (**Maximum 5 pages.**)
  - (i) **Overview (0.5 page)**  
Provide an abstract of the proposed research and computations.
  - (ii) **Resource usage, codes and performance (1.5 pages)**  
Describe how your applications can make efficient use of the requested resources. Give numbers and/or indicate measures of scalability and performance (for example a graph of execution time versus number of cores).  
Include records of usage if you have been granted time for this project (or a similar project) in previous allocation rounds. If the re-

requested time differs significantly from earlier allocations and/or used time, please explain the difference. Also motivate if specific resources (such as large memory, GPUs, etc.) are requested.

(iii) **Scientific challenges (2 pages)**

Describe how the proposed project relate to the state of the art of the scientific area, has the potential to increase the knowledge within its scientific area, and how the proposed project uses adequate computational methods to address scientific questions.

(iv) **Research group and management (0.5 page)**

Describe the complete research group that will be working on the proposed project: name of member, HPC experience, position, and roles. Indicate how the allocated time will be managed within the group.

(v) **References (0.5 page)**

Include a list of references for the project description.

(d) **Activity report. (Maximum 8 pages)**

Please note that the activity report is compulsory for all applicants. Failing to comply with the requirements will have a negative impact on your future allocations of compute time.

(i) **Summary**

The report must include an account of the major scientific achievements emanating from the use of the allocated SNIC resources / comparable resource outside of Sweden. If this is your first application for SNIC resources, but you have previously been using comparable resources abroad, please also provide allocation and usage statistics in the activity report.

(ii) **Publications list**

The activity report must include a list of publications from the last two years of all publications that acknowledge the use of SNIC resources. You may include forthcoming / in press publications.

(iii) **Academic achievements**

The activity report must include achievements such as theses defended and graduate degrees completed.

(iv) **HPC related developments**

The activity report must include any developments related to programming, code optimization, visualization etc.

(v) **What not to include**

Please note that publications that do not acknowledge the use of SNIC resources shall not be included in the activity report.

ix) **Multi-year allocations**(1) **progress report for multi-year allocations**

A PI who has been granted a multi-year allocation shall on a yearly basis, as instructed by SNIC, provide a progress report detailing:

- (i) **Efficiency:** Detailing that the appropriate software et al. has been used.
- (ii) **Track record:** Detailing usage during the past year.
- (iii) **Track record & project purpose:** Detailing how the allocation has been used in relation to the aim of the project.
- (iv) **Productivity:** Detailing that SNIC has been acknowledged in publications facilitated by the allocation.

(b) **Progress review**

The yearly progress report will undergo a yearly progress review, performed by SNAC WG and decided on by SNAC, that will result in the allocation being either continued without adjustment, the allocation being adjusted, or the allocation being terminated.

b) **SNAC Medium/SENS Medium/SSC Medium:**

- i) The proposal should be filled out electronically via <https://supr.snic.se/>.
- ii) The applicant should provide the mandatory information below. Additionally, the applicant may provide non-mandatory information using the proposal form.

iii) **Principal investigator information**

The PI shall provide the mandatory information regarding the following items.

- (a) Name
- (b) Email
- (c) Position
- (d) Sex
- (e) Department
- (f) Organization
- (g) Primary classification of research

iv) **Basic information**

The applicant is to submit the information required as stated at <https://supr.snic.se/>.

(a) **Project title**

Title of the proposed project.

(b) **Abstract**

A project abstract in English (max 500 words).

(2) **Resource usage**

- (i) Specify and describe the software that will be used. Unless it is centre provided, specify how it is parallelized, and how well and to what extent it scales for the problem sizes that will be studied.
- (ii) Motivate answers to the system-specific questions asked per resource. That is, motivate your estimate of typical and maximal number of cores per job, the memory requirements, per core, per node

or aggregated as adequate for the particular resource and parallelization scheme. Also, specify the amount and type of storage requested, i.e., fast temporary storage during job execution, short-term storage, and long-term/archiving storage.

(iii) Other specific software and hardware requirements.

v) **Affiliation**

(a) Name of university, institute, or similar.

vi) **Classification**

(a) Classify the project according to the VR classification codes.

vii) **Multi-year allocations**

(a) **progress report for multi-year allocations**

A PI who has been granted a multi-year allocation shall on a yearly basis, as instructed by SNIC, provide a progress report detailing:

(i) **Efficiency:** Detailing that the appropriate software et al. has been used.

(ii) **Track record:** Detailing usage during the past year.

(iii) **Track record & project purpose:** Detailing how the allocation has been used in relation to the aim of the project.

(iv) **Productivity:** Detailing that SNIC has been acknowledged in publications facilitated by the allocation.

(b) **Progress review**

The yearly progress report will undergo a yearly progress review, performed and decided on by SNAC WG, that will result in the allocation being either continued without adjustment, the allocation being adjusted, or the allocation being terminated.

c) **SNAC Small/ SENS Small/ SSC Small:**

- i) The proposal should be filled out electronically via <https://supr.snic.se/>.
- ii) The applicant should provide the mandatory information below. Additionally, the applicant may provide non-mandatory information using the proposal form.

iii) **Principal investigator information:**

The PI shall provide the mandatory information regarding the following items.

- (a) Name
- (b) Email
- (c) Position
- (d) Sex
- (e) Department
- (f) Organization
- (g) Primary classification of research

iv) **Basic information**

The applicant is to submit the information required as stated at <https://supr.snic.se/>.

(a) **Project title**

Title of the proposed project.

(b) **Abstract**

A project abstract in English (max 500 words).

**v) Resource usage**

(i) Specify and describe the software that will be used. Unless it is centre provided, specify how it is parallelized, and how well and to what extent it scales for the problem sizes that will be studied.

(ii) Motivate answers to the system-specific questions asked per resource elsewhere. That is, motivate your estimate of typical and maximal number of cores per job, the memory requirements, per core, per node or aggregated as adequate for the particular resource and parallelization scheme. Also specify the amount and type of storage requested, i.e., fast temporary storage during job execution, short-term storage, and long-term/archiving storage.

(iii) Other specific software and hardware requirements.

**vi) Affiliation**

(a) Name of university, institute or similar.

**vii) Classification**

(a) Classify the project according to the VR classification codes.