

Requests for Support- Template

A CALL FOR PROPOSALS BY THE NATIONAL ESM SUPPORT TEAM

2022_V3

Access to the model code and, if applicable, the documentation must be available for the technical assessment of the application.

Please stick to the given text boxes (**max. 2.000 characters possible**).

As indicated on the webpage, the audience for this document is the ESM steering committee and technical support team.

In case certain points cannot be addressed, it is advisable to contact the natESM support team in advance. This exchange before submitting a request can facilitate the process for both sides.

If you have specific questions about the request process or the selection process, please contact: info@nat-esm.de

Please submit the completed form by e-mail to support-request@nat-esm.de.

1. General information

Name of institution:

Name of software | model:

Programming language:

Licensing conditions:

Timeframe: short (< 8 weeks) long (2-6 month)

Name of contact person:

Mail of contact person:

2. Technical and Scientific Criteria

Test cases for numerical results ready: yes no

Necessary computing time provided: yes no

Results can be fully published open access: yes no

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- Acceleration of the underlying numerical algorithm: yes no
- Providing a credible path for long-term goals: yes no
- Proposed changes incorporated into main branch: yes no
- Code be sufficiently maintained afterwards: yes no
- Useful, user-friendly documentation for the code: yes no
- Following standardisation methods: yes no
- Open-source distribution allowed: yes no
- System for traceability, reproducibility and version control: yes no

Which one? How to access?

If no: Is gitlab.dkrz.de a solution? yes no

- Well-defined interfaces between components provided: yes no
- Code portable with aspects of modularity: yes no
- Simulations from global to local possible: yes no
- Scaling workflow: yes no
- Capacity for data assimilation and diagnosis: yes no
- Proposed work improve the quality of simulations and enable users to achieve unprecedented accuracy: yes no
- Adaptations open up new scientific areas or hold potential to go beyond the current state of the art: yes no

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2. Brief Overview

Overview of the model / software:

Scientific significance of the model / software:

Aim of the request:

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3. HPC and exascale systems

For this purpose, concrete measurements on the scalability of the model so far are to be provided.

Description of previous use of HPC within the model / software:

Motivation for the use of exascale systems:

Scaling data and plots

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4. Intended work:

The limiting factors for the current state of the software should be explained, as well as the ideas about what performance improvements are expected.

Description of planned work:

Target architecture:

Methods to be used:

Criteria for fulfilment:

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6. Schedule

Keep in mind: 2 - 4 weeks might be needed to learn the models/libraries and do general profiling/analysis by the RSEs.

Task Nr.	Task	Week
1	Getting to know the code	2 weeks
2		
3		
4		
5		
6		

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7. Future use of developed model / software use

This section should outline your own contribution to ensure collaboration with the RSEs

Plans for sustainability of model / software:

Dissemination of model / software:

Maintenance of model / software:

Relevance for the future natESM strategy:

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