

MareNostrum 5 Pilot Access: Overview

- ⇒ Applications for MareNostrum 5 pilot access can only be submitted through the Indico page: <https://indico.truba.gov.tr/e/marenostrum5>
- ⇒ If there are specific needs for resources or support, they must be indicated in the application form.
- ⇒ Pilot access allows resource usage for a duration ranging from a minimum of **3 months** to a maximum of **6 months**.
- ⇒ Requests must adhere to the specified **minimum** and **maximum** resource limits:
 - For the **GPP (CPU)** partition, you can request:
 - Minimum: 448.000 core-hours (4000 node-hours)
 - Maximum: 896.000 core-hours (8000 node-hours)
 - For the **ACC (GPU)** partition, you can request:
 - Minimum: 192.000 core-hours (2400 node-hours)
 - Maximum: 256.000 core-hours (3200 node-hours)

Requests exceeding these limits will not be accepted. For more information about the GPP and ACC partitions in the MareNostrum 5 pre-exascale supercomputer, please visit:

<https://www.bsc.es/ca/marenostrum/marenostrum-5>

- ⇒ Resource usage must be balanced and consistent over the allocated period. Proposals should demonstrate a balanced distribution of resource usage during the lifetime of the project, ensuring a stable consumption of the total awarded time.
- ⇒ Project team members are required to have the technical competence to use effectively the supercomputing environment. Prior experience with national or international supercomputing resources (e.g., TRUBA, İTÜ-UHeM, CINECA, LRZ) is considered a substantial advantage.
- ⇒ Researchers residing in Türkiye and affiliated with universities, research centers, public institutions, SMEs, startups, or private sector organizations based in Türkiye are eligible to apply.
- ⇒ Pilot access is strictly limited to open R&D activities in academia, industry (SMEs, startups, large enterprises), and public institutions.
- ⇒ Only projects rated THS 1-4 (inclusive) will be considered for pilot access.

Application Criteria

- ⇒ The principal investigator and the researchers in the project team must be affiliated with a Türkiye-based institution (university, institute, research center, public institution, or private sector). Graduate students, PhD candidates, or postdoctoral researchers working at universities, institutes, or research centers in Türkiye are eligible to participate in the project team.

Evaluation Process

The following evaluation process will be applied to all applications. In cases of high demand or limited availability of MareNostrum 5 resources, applications may also undergo a "scientific peer review" in addition to the administrative check and technical evaluation.

- ⇒ **Administrative Check:** The online application form must be completed fully and in accordance with the provided instructions. Applications with incomplete information or missing sections will be administratively rejected without proceeding to the technical evaluation. The

suitability of the project for the minimum and maximum resource requirements will also be reviewed.

⇒ **Technical Evaluation:** Technical evaluation will be executed by the HPC experts.

The evaluation process takes 15 business days, after which applicants will be contacted via email. Applicants should also check their spam folders.

During the evaluation, technical reviewers may request additional information or ask questions. In such cases, applicants are expected to respond within the specified timeframe. All communication between evaluators and applicants will remain confidential. Peer review criteria can be accessed on the application homepage:

<https://indico.truba.gov.tr/e/marenostrum5>

Acknowledgment Examples

All scientific outputs (e.g., articles, theses, conference papers, posters) using MareNostrum 5 resources must include the following acknowledgment statement:

⇒ **Acknowledgment Text:**

The numerical calculations reported in this paper were fully/partially performed using the MareNostrum 5 pre-exascale supercomputing system. We gratefully acknowledge the Barcelona Supercomputing Center (BSC) and the Scientific and Technological Research Council of Turkey (TÜBİTAK) for providing access to these resources and supporting this research.