Discoverer Call for Proposals for Fast Track & Benchmark Access Modes

Type of Access: Fast Track & Benchmark Access

Opening Date: 21/01/2022

Closing date: NA (continuous call)

The Call for Proposals for Discoverer Fast Track & Benchmark Access Modes is continuously open, with a maximum time-to-resources-access (start-date) of one month after the application.

The allocations are granted for four (4) months with the option for projects to apply for a continuation. This continuation of the same project should be duly justified, limited to a maximum of 4 additional months, and will depend on an assessment of their ongoing awarded project. For any additional continuation of the same project the applicants have to apply for Regular Access Call. Applicants (Principal Investigators) can only have two (2) Fast Track Access project awarded at any given time.

Both Fast Track and Benchmark access modes (which in this call are combined in one) are designed to serve **research domains**, **industry open R&D (nonprofit & open access to the results)** and **public sector applications** that require medium to large-scale resources. Benchmark calls are targeted towards users that need to perform benchmark study which will be a base for more frequent access to substantial supercomputing resources. The Fast Track calls are targeted towards users that need fast access to HPC resource, which is limited in time and smaller in resource when compared with regular access call projects.

Full Call Details:

The application submission form is available on the Discoverer web page portal.

Communication of allocation decision: 1 month after application

Allocation period for awarded proposals: 4 months starting from project approval date

Submission of Final Reports: Within one month after the completion of the project.

Type of Access: 4 months Fast Track & Benchmark Access

All proposals consist of: fully filled in application form and submitted electronically as attachment send to peer-review@discoverer.sofiatech.bg.

Researchers from academia, research institutes, public authorities and industry established or located in a Member State or in a country associated to Horizon Europe are eligible to apply (for further details see Discoverer Access Policy Document).

The **Discoverer Resource Allocation Committee (RAP)**, composed of leading scientists and engineers, ranks the proposals received and provides a recommendation to award Discoverer resources based on (expected) scientific and technical excellence.

Call related documents

The following documents form the reference for this call:

- The Discoverer Access Policy can be found [here](#).
- The Technical Information on Discoverer Supercomputer can be found [here](#).
- The word template for the Fast Track & Benchmark calls application form can be found [here](#) .

System	Architecture	Site (Country)	Total Core Hours available for Benchmark & FastTrack Calls	Minimum request core hours
Discoverer Main CPU Partition	BullSequana XH2000	Sofiatech, (BG)	10 million	0.28 million or 1 node (CPU: 2x AMD EPYC 7H12 (64cores, 2.6GHz) / RAM: 256GB)

Discoverer Fast Track & Benchmark call Proposal Requirements (please use provided application form and instructions therein)

- Short description of the scientific goals and objectives including progress beyond state of the art and scientific impact (for the case of FastTrack calls) or future application plans (for the case of Benchmark calls)
- Type of resources required, i.e. scalable computing resources (node hours/core hours), storage capacity and download/upload bandwidth etc..
- Resources requests based on limits defined above including information on scalability for scalable compute resources requests (only for FastTrack calls)
- Description of the software and services needed to successfully complete the project
- Description of the research methods (including a project workplan), algorithms, and (intended) code parallelization approach (including memory requirements)
- Information on Data Management
- Description of special needs (if any)

The usage of Discoverer resources needs to be acknowledged for all data produced through Discoverer PetaSC allocations, both in publications and when depositing the data to other infrastructures.

Reviewing Process

A Review Panel established by the Discoverer Resource Allocation Committee composed by at least two scientists competent in the area of the proposals shall discuss the scientific merit of the proposals with the support of a technical team and recommends which proposals should be granted based on the criteria listed below.

Review Criteria

- Soundness of the Methodology and tools: Does the request describe appropriate tools, methods and approaches for addressing the research objectives?
- Appropriateness the Research Plan: Is the (research) plan appropriate to achieve the scientific or the benchmark goals described in the proposal? Has the applicant properly estimated the resources (for FastTrack calls) ?
- Appropriateness of the Project Timeline: Has the applicant estimated the right number of simulations to achieve the goals in the given time?
- Significance of the Proposed Research: Is the proposed work supported by a grant or grants that have undergone review for intellectual merit and/or broader impact or in previous Benchmark calls. What is the scientific impact (for FastTrack calls) or expected scientific impact from future regular or FastTrack calls (for Benchmark calls)
- Technical assessment: Software availability on the requested resource. For the FastTrack calls all codes necessary for the project must already be available on the system requested, or in case of codes developed by the applicants, they must have been sufficiently tested for efficiency, scalability (if applicable), and suitability on other (smaller scale) facilities with similar Zen architecture or in previous Benchmark call. Feasibility of the requested resource. The requested system(s) must be suitable for the proposed project.

How to Submit

To submit proposals, fill in the application form available online or manually fill in the form template and send it as attachment to: peer-review@discoverer.sofiatech.bg.

The Discoverer Peer Review team will send you confirmation within a couple of days on the receipt of the application, if you do not hear back from us, please write an email to check if the proposal has been received successfully.

For technical questions or support before the application submission, you can contact us at peer-review@discoverer.sofiatech.bg.