

Request for HBP/EBRAINS resources  
within the Fenix infrastructure

* Please fill in the form and send your request to [icei-coord@fz-juelich.de](mailto:icei-coord@fz-juelich.de)

|  |  |
| --- | --- |
| **Project duration[[1]](#footnote-1)** (YYYY/MM - YYYY/MM) |  |
| **Project name** |  |
| **Type of project** (either new or extension) |  |
| **Project ID** (in case of extension) |  |
| **PI name** (please name only one) |  |
| **PI Organisation** |  |
| **PI Email** |  |
| **Names, organisation and Email of other involved persons** |  |
| **Date** |  |

**Please note:**

The resource request form will be shared within the Human Brain Project (HBP) Consortium and may be submitted to external reviewers. Information on resource requests granted will be included in ICEI deliverables with dissemination level “Confidential, only for members of the consortium (including the Commission Services)”.

Applicants are advised to provide a comprehensive and self-contained proposal to facilitate its evaluation. The level of detail should be chosen according to the amount of requested resources. In case of lacking information, the applicants may be asked to provide additional information.

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# Summary

*Please provide one paragraph summarizing the scientific question(s) that you intend to address using these resources. What is the scientific goal?*

**Contents**

[Summary 2](#_Toc62114931)

[1. Relation to the Human Brain Project’s Description of Action (DoA) 2](#_Toc62114932)

[2. Preliminary work (in case of a project extension) 2](#_Toc62114933)

[3. Scientific methodology, goals, impact and implementation plans 2](#_Toc62114934)

[4. IT resources requested 3](#_Toc62114935)

[4.1 Resources 3](#_Toc62114936)

[4.2 Technical implementation plans 4](#_Toc62114937)

[4.3 Do you currently use your software on a cluster or supercomputer? 4](#_Toc62114938)

[4.4 Do you require on-boarding on how to use the requested resources? 4](#_Toc62114939)

[4.5 Does this project involve processing of personal data as defined by GDPR? 4](#_Toc62114940)

[5. Resource management and work plan 4](#_Toc62114941)

[6. Data management plan 4](#_Toc62114942)

[7. Dissemination 5](#_Toc62114943)

[8. How did you become aware of HBP/EBRAINS resources offered on the Fenix infrastructure? 5](#_Toc62114944)

[9. References 5](#_Toc62114945)

# Relation to the HBP’s Description of Action (DoA)

*Please provide information on the related work packages & tasks and explain how the project relates to the goals and objectives of HBP.*

# Preliminary work (in case of a project extension)

*Please provide a brief summary of project results obtained from your first resource allocation.*

# Scientific methodology, goals, impact and implementation plans

*Please explain the methodology that will be used to achieve the scientific goal of the project, highlighting scientific excellence, novelty and potential for high European and international impact of the project*[[2]](#footnote-2)*.*

*What are possible transformative aspects and expected advances?*

# IT resources requested

## Resources

|  |  |  |
| --- | --- | --- |
| **Resource** | **Units** | **Quantity** (required in total) |
| **Resources at CSCS** | | |
| Piz Daint Multicore (Scalable compute) | node×hour |  |
| Piz Daint Hybrid (Interactive compute) | node×hour |  |
| OpenStack Cluster (VMs[[3]](#footnote-3)) | # x VM model(s)[[4]](#footnote-4) |  |
| Store POSIX and Object (storage in ARD[[5]](#footnote-5) incl. backup on Tape library) | TByte |  |
| Low latency storage tier (storage in ACD5) | TByte×day |  |
| **Resources at JUELICH** | | |
| JUSUF (Interactive/ Scalable compute) | node×hour |  |
| JUSUF Virtual machines (VMs3) | # x VM model(s)4 |  |
| HPST @ JUELICH (storage in ACD5) | TByte×day |  |
| **Resources at CEA** | | |
| Interactive Computing Cluster | node×hour |  |
| Openstack Compute Node (VMs3) | # x VM model(s)4 |  |
| Swift/OpenIO (storage in ARD5) | TByte |  |
| Store filesystem (storage in ARD5) | TByte |  |
| Flash filesystem (storage in ACD5) | TByte×day |  |
| Work filesystem (storage in ACD5) | TByte×day |  |
| **Resources at BSC** | | |
| Interactive Computing Cluster | node×hour |  |
| Nord3 (VMs3) | # x VM model(s)4 |  |
| Active Archive 2 (storage in ARD5) | TByte |  |
| HPC Storage(storage in ACD5) | TByte×day |  |
| **Resources at CINECA** |  |  |
| G100 Interactive Computing Cluster | node×hour |  |
| G100 Openstack Compute Node (VMs3) | # x VM model(s)4 |  |
| Store filesystem (storage in ARD5) | TByte |  |
| G100 Work filesystem (storage in ACD5) | TByte |  |

Comments on requested resources:

## Technical implementation plans

*Please explain why the requested resources are needed to achieve the scientific goal.*

*What kind of jobs are planned (number and type of nodes, typical job duration)? How much storage needs to be available to execute the jobs? Please list the software components, HBP platform tools and services that are needed?*

## Do you currently use your software on a cluster or supercomputer?

NO

YES

*If you selected “Yes”, please specify, whether you have optimized, scaled, benchmarked your code before. What is the current job configuration (number of nodes, execution time, etc.)? What is the expected job configuration on the Fenix infrastructure?*

## Do you require on-boarding on how to use the requested resources?

NO

YES

## Does this project involve processing of personal data as defined by GDPR?

NO

YES

*If you selected “Yes” or if you will be processing anonymised human data, please specify what kind of data will be processed.*

# Resource management and work plan

*Please describe how you intend to manage the requested resources, e.g. how will it be ensured that all resources are consumed by end of the project? How will input data and result data be moved to or from the system?*

# Data management plan

Do you agree and plan to comply with the current version of the HBP Data Management Plan[[6]](#footnote-6)?

NO

YES

*If you selected “No” then please provide your data management plan. Please try to address the following questions, providing very short answers and/or references:*

*1. What is the purpose of the data collection/generation and its relation to the objectives of the project?*

*2. What types and formats of data will the project generate/collect?*

*3. How do you plan to address the FAIR data management principles such that the data produced in this project will become findable, accessible, interoperable and re-usable?*

# Dissemination

*Please describe planned channels and resources for dissemination and knowledge exchange. If the requested resources are used to provide EBRAINS services, then describe plans for attracting users for these services. In other cases, please explain where you plan to publish results.*

# How did you become aware of HBP/EBRAINS resources offered within the Fenix infrastructure?

Fenix website (<https://fenix-ri.eu/>)

Human Brain Project website (<https://humanbrainproject.eu/>)

EBRAINS website (<https://ebrains.eu/>)

Fenix Twitter account ([@Fenix\_RI\_eu](https://twitter.com/Fenix_RI_eu))

EBRAINS social media ([Twitter](https://twitter.com/ebrains_eu), [Facebook](https://www.facebook.com/Ebrains_eu-112559066821827), [LinkedIN](https://www.linkedin.com/company/ebrains-eu/about/), [Instagram](https://www.instagram.com/ebrains_eu/))

HBP social media ([Twitter](https://twitter.com/HumanBrainProj), [Facebook](http://www.facebook.com/humanbrainproj))

EBRAINS Collaboratory (<https://wiki.ebrains.eu/bin/view/Collabs/fenix-icei/>)

Fenix webinar (<https://fenix-ri.eu/media/webinars>)

Presentation/representation at a conference/workshop/tutorial

by Fenix/ICEI project member

by EBRAINS/HBP Outreach team or member

by Fenix user

other (please specify):

unknown

Other (please specify):

# References

*Please provide recent/most important bibliographic references that are relevant to the project.*

[<ref number>] <reference>

1. Start of the project may be adjusted by the Infrastructure Allocation Committee (IAC) [↑](#footnote-ref-1)
2. Commitment to produce a short “Dissemination Report”: <https://wiki.ebrains.eu/bin/view/Collabs/fenix-icei/2.%20Fenix%20services%20and%20resources/Dissemination%20Reports/> [↑](#footnote-ref-2)
3. 3 Fenix Virtual Machine (VM) Services (details on Fenix website: <https://fenix-ri.eu/infrastructure/services/virtual-machine-services>) [↑](#footnote-ref-3)
4. e.g. 4x gpp.s; 1x gpu.l (document on Fenix VM Services Models: <https://fenix-ri.eu/sites/default/files/public/file-uploads/Fenix%20VM%20Models_8.pdf>) [↑](#footnote-ref-4)
5. Fenix Data Services (details on Fenix website: <https://fenix-ri.eu/infrastructure/services>): Archival Data Repository (ARD), Active Data Repository (ACD) [↑](#footnote-ref-5)
6. 6 The HBP Data Management Plan is defined in HBP SGA2 deliverable D11.3.1, which is a non-public deliverable that is accessible to HBP members. You can ask us at [icei-coord@fz-juelich.de](mailto:icei-coord@fz-juelich.de) for a copy. [↑](#footnote-ref-6)