ARCHER2 Director’s Time: Application Form

**Note: this form is Director’s Time applications only. Technical Assessment forms for other access routes can be found on the ARCHER2 website at** [**http://www.archer2.ac.uk/support-access**](http://www.archer2.ac.uk/support-access)**.**

**Instructions:**

1. If you have any questions or require clarification, please contact the ARCHER2 Service Desk ([support@archer2.ac.uk](mailto:support@archer2.ac.uk)).
2. Return the completed form (as a Word document) to the ARCHER2 service desk ([support@archer2.ac.uk](mailto:support@archer2.ac.uk)).
3. The ARCHER2 CSE team will complete Section 2 and will contact you directly for more information if it is required. This may take up to 8 working days from receipt of the completed form.
4. You will be notified by the Service Desk of the outcome of this application and, if successful, a project will be created for you and your users on the ARCHER2 service.

**Notes:**

* Director’s Time Projects should demonstrate a benefit to the University of Edinburgh
* Director’s Time Access is available for all research areas.
* All projects will need to be completed by the end of the ARCHER2 Service.
* All data will need to be removed at the end of the project.

Completion of this form implies permission for user details to be stored in the Service Partners’ and UKRI’s databases and to be used for mailing, accounting, reporting and other administrative purposes. Please also see the ARCHER2 service policies at: <https://www.archer2.ac.uk/about/policies/>.

# Section 1: HPC Resources and Case for Support (*To be completed by the applicant*)

1. **Project Information.**
   1. **Project Title:** [Enter project title]
   2. **Project Abstract:** [Enter project abstract (max 100 words)]

* 1. **PI Name and Contact Details**

|  |  |
| --- | --- |
| **Name:** | [Please Complete Table] |
| **Department:** |  |
| **Position Held:** |  |
| **e-Mail:** | [Please enter your @ed.ac.uk address] |

* 1. **Names, Departments and Institution of Collaborator(s)**

|  |  |
| --- | --- |
| **Name:** | [Include details of any collaborators] |
| **Department:** |  |
| **Position Held:** |  |
| **e-Mail:** |  |

* 1. **Proposed start date :** [Enter start date]

* 1. **Project Duration:** [Enter project length (typically 12 months with a further 12 months extension available following a review after the initial 12 months. We would encourage applicants to apply for further resources via UKRI calls where available ]

1. **Previous Use of HPC Resources.** 
   1. **Are you an existing ARCHER(2) user?** [Yes/No]
   2. **Which other HPC services have you used?**

[Enter list of other HPC services]

* 1. **If you have used other HPC services please provide a brief summary of the number of core hours used and the types of jobs run (codes, core counts, typical job lengths):**

[Enter summary of previous service usage]

1. **ARCHER2 Software and Support Requirements.**

## Summary of software requirements.

**Research Software Packages**

What are the main codes you will be using? A description of available research software on ARCHER2 is given at <https://docs.archer2.ac.uk/research-software/overview.html>.

Please provide links to codes/software not presently available on ARCHER2.

[Enter list of codes with links to descriptions if possible]

**Software requirements (e.g. compilers, libraries, tools):**

A description of available software libraries on ARCHER2 is given at <https://docs.archer2.ac.uk>. Please provide links to codes/software not presently available on ARCHER2.

[Enter list of software requirements to support your use of ARCHER2]

1. **Proposed Use of ARCHER2 Resources.** 
   1. **Job size mix for the project**

**There are 128 cores per node on ARCHER2**. Generally we would expect users to use all cores on a node. If you cannot use all cores on a node please ensure you have stated why in Section 5.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Largest Job | Typical Job | Smallest Job |
| Number of nodes | [Please Complete Table] |  |  |
| Number of cores used per node (usually 128) |  |  |  |
| Wallclock time for each job (Max. 48h) |  |  |  |
| Number of jobs of this type |  |  |  |
| Total memory required. |  |  |  |

**Total CU:** [Enter total CU required, 1 CU equates to 1 node hour on ARCHER2 ]

* 1. **Disk space requirements.**

The default disk space granted to projects is:

**10 GiB /home**: Small, backed-up. For project critical files (e.g. source code).

**500 GiB /work**: Large, high-performance, not backed-up. For input and output from calculations.

**Disk Space:** [Specify disk space requirements if larger than default]

Please provide a justification for the additional disk space (max 100 words)

* 1. **How do you plan to transfer data from ARCHER to elsewhere?**

All data will need to be removed at the end of the project. You may find the ARCHER2 Data Section in the documentation useful: <https://docs.archer2.ac.uk/user-guide/data/>

[Please describe the mechanism you will use to transfer data from ARCHER2 to external sites for further analysis or archive. Please also state the sites that you will be transferring data to. You should also state roughly the amount of data that will be transferred in each transfer instance (i.e. how will the transfers be batched up).

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1. **Benefits to the University of Edinburgh**

Please provide a brief summary (maximum 300 words) stating what benefit the Director’s Time will provide to the University of Edinburgh.

[Enter Benefits to the University of Edinburgh]

# Section 2: Technical Assessment (*To be completed by CSE team).*

**Date Received by CSE:** [Enter received date]

|  |  |
| --- | --- |
| Do the applicants have the technical expertise required for the proposed work? | Yes/No |
|  | |

|  |  |
| --- | --- |
| Is the software specified technically suitable for ARCHER2? | Yes/No |
|  | |

|  |  |
| --- | --- |
| Is the compute time and the amount of storage requested reasonable? | Yes/No |
|  | |

|  |  |
| --- | --- |
| Will the requested Director’s Time allocation bring benefit to the University of Edinburgh? | Yes/No |
|  | |

|  |  |
| --- | --- |
| Does the project require the technical capabilities of ARCHER2? | Yes/No |
| Would a different computing resource be more appropriate such as Cirrus? | Yes/No |
|  |  |

**Is the application, as outlined above, suitable for access to the ARCHER2 service?** **Yes / No**

**Name:** [Enter name]

**Position:** [Enter job title]

**Date:** [Enter date completed]