Technical Evaluation for a Full eCSE Application

Applicants for an **eCSE application** should use this template for requesting a Technical Evaluation (TE) of the codes to be used in the eCSE project.

The eCSE01 call will close at **16:00 on Tuesday 7 July 2020**. No applications will be accepted after this time. However, this TE form should be submitted to the ARCHER2 service desk ([support@archer2.ac.uk](mailto:support@archer2.ac.uk)) by **16:00 pm on 16 June 2020.** The completed TE form will be returned to you as a PDF and should be submitted in the ARCHER2 SAFE as part of your application to the eCSE programme.

Please note:

* There is a hard page limit for each section which is shown at the start of each section. Please note that these are designed to give plenty of space and are maximum limits and you do not have to use all the space available.
* The font size should be no smaller than 11pt and the margins should be no smaller than 2.5cm.

Please upload your completed technical evaluation when you fill in your eCSE application online form via the eCSE Funding Calls section within the SAFE <<https://www.archer.ac.uk/safe>>.

The text highlighted in grey in italics is for guidance and **should be deleted** before submission.

If you have any queries or require assistance regarding your application, please contact the ARCHER2 service desk: [support@archer2.ac.uk](mailto:support@archer2.ac.uk).

# Project Information

## 1. Project Title (as given in on-line SAFE form)

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| *As stated, please use the Project Title you gave when you started the proposal in the SAFE.* |

# Proposal Information

## 2. Description of code(s) (max. 1 page)

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| *You should give a short description of the main code(s) that will be developed during your eCSE project, giving links where appropriate.* |

## 3. Scaling evidence for the code(s) (max 2 pages including any diagrams)

*Please give quantitative evidence to show that the code achieves good performance for typical use cases. For each use case, the evidence must include two graphs (or tables):*

* *Table of runtime (or performance) against number of nodes or a plot of the performance against number of nodes (a plot of runtime is not acceptable). This should utilise data for the code on ARCHER or another suitable HPC system. The runtime (or performance) axis should be plotted on a linear scale, not a log scale.*
* *Parallel efficiency against number of nodes, again using the code on ARCHER or another suitable HPC system. The parallel efficiency axis should be plotted on a linear scale, not a log scale.*
* *For software planning to make use of a single node (or less) only, please supply a description of the single node performance, rather than the two points above.*

*The above may come from Tier-1 systems such as ARCHER, or in the case where a code will be ported from a Tier-2 system to ARCHER2, this evidence may come from Tier-2 systems. Plots/tables should be provided relative to the smallest number of nodes that can feasibly be used. If the application is developing new algorithms for which performance data is not yet available then the performance expected on completion of the project should be given and justified. If you require help in evaluating the performance of your code on a particular problem then please contact the ARCHER2 service desk (support@archer2.ac.uk).*

## 4. Sustainability, maintenance and availability of codes (max. 1 page)

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| *Please explain how the software will be*   * *maintained both during and after the eCSE project.* * *made available to ARCHER2 users and any licensing model used.* |

## 4. Sustainability and maintenance of codes (max. 1 page)

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| *Please explain how software will be maintained both during and after the eCSE project.* |

## 5. Availability of codes on completion of project (including licensing model) (max. 1 page)

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| *Please explain how the code will be made available to ARCHER2 users and any licensing model used.* |

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

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

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| Is the software presently suitable for running on a system such as ARCHER2 in terms of scaling and performance, or is it predicted to be by the end of the project? | Yes/No |
|  | |

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| --- | --- |
| Is the licensing model suitable for future ARCHER2 usage? | Yes/No |
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| Will the code be available to ARCHER2 users on completion of the eCSE work? | Yes/No |
|  | |

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| Will the code be maintained after the completion of the eCSE work? | Yes/No |
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| Please provide any other relevant comments here (optional) |
|  |

**Name:** [Enter name]

**Position:** [Enter job title]

**Date:** [Enter date completed]