

Grant Reference Number:

HPCx Application for National Supercomputing Resource

A guidance note for completing this form can be found at <http://www.epsrc.ac.uk/hpc>

Section 1: to be completed by the applicant

1. To which Research Council are you applying for funding:

Please circle: EPSRC, NERC, PPARC, ESRC, BBSRC, MRC

2. Class of application:

3.1 Class 1 Class 2

Class 1 – A fully peer-reviewed research project. Applications for class 1 resources should be made using your Research Council's research grant application form along with this application form.
Your case for support should include details of your scientific project and justify your requirement for the chosen resource (for example, requirement for large memory, large disk, mass storage, large CPU etc.) **Work as part of a consortium is preferred.** (For more information on consortia, please see <http://www.epsrc.ac.uk/hpc>, see under How to Apply for Access

Class 2 - A limited amount of time (max 100,000 AUs) is available for up to 1 year for a 'pump-priming' to prepare for a class 1 application or b) for the support of users in new HPC applications areas. Applications for class 2 time should be made on this form together with a half to one page case for support and sent directly to Liz Sim at the Edinburgh Parallel Computing Centre (see page 6)

For further information on Class types please see <http://www.epsrc.ac.uk/hpc>, High End Computing then How to apply.

3.2 Is this application for computing time only? Yes / No

4) **Project Title:**.....
.....

5) **Your name and address:**

Title..... Name:
Department:.....
Institution:
Position held:
Address:
.....
.....
Postcode: ☎:
Fax: Email:.....
Nationality:.....

6) Are you planning to carry out this computational work as part of an existing Consortium?

(for more information on consortia, please see <http://www.epsrc.ac.uk/hpc> see under “how to apply for access”)

Yes: Name of Consortium:
Name of Principal Investigator:

No: Are you planning to form a new Consortium as part of this proposal?
If yes, please give details:


.....
If no, please explain why this work is not suitable

6.1 Expected number of participants in this project:.....

7) Class 1 applications only

7.1 Do you expect any of your jobs to require, a majority of the system, either processors or memory?

No / Yes

 please specify your requirements:

Job time:.....(hours)

Number of processors:.....

Memory:.....(Gbytes)

Temporary (scratch) disk space:.....(Gbytes)

7.2 Please estimate as best you can the profiles of the production jobs you plan to run (you may use < x processors as an indication)

	Largest Job	Smallest Job
Number of Processors		
Memory		
Time		
% of such jobs		

7.3 How do you plan to optimise the codes to run on massively parallel architectures?

Within your own group

With HPCx support

Other (CSAR etc.)

Please specify: _____

8 Software requirements: please list software libraries, compilers, applications packages and datasets required:

.....

9 Any other requirements?

.....

for example, please include any requirements you have to export magnetic tapes (you may need to include a request for funding for these in your research grant!), or for moving large amounts of data (>1 Gbyte) regularly across the network.

10 Project Resources

10.1 Resource types requested:

Resource Type	Months 1-6	Months 7-12	Months 13-18	Months 19-24	Months 25-30	Months 31-36	Total
Computing Time (Allocation Units (AUs))							
Disk (Gbytes)							
HSM/Tape (Gbytes)							
Training (Days)							
Applications Support (Days)							
Optimisation Support (Days)							
Notional cost (tba)							

Please fill in the table for each 6 month period of your proposal for each resource type. One Allocation Unit is equivalent to a 1 gigaflops processor running for 1 hour, as assessed by the Linpack benchmark (Rmax). For more information see http://www.hpcx.ac.uk/services/policies/charging_model.html

Please note that if your proposal is funded, for capacity planning purposes, you will be required to refine the profiling of your requested resources within 3 months of the grant announcement.

NB: You may wish to allow for travelling expenses to cover **training**. For **support**, the recommendation from the Research Councils is that one day of support should be allocated for every 5000 CPU hours requested. New users may be above this guideline and experienced users below, but experience has shown considerable benefits to those groups who have used this resource.

How have you estimated the time required for this project?

.....

10.2 Proposed start date:.....

guidance note for 10.2

Please note that a **class 1** project may take 4 or 5 months to review. Computer time cannot normally be awarded until this process is complete. Consult your Research Council for more details.

10.3 Duration:.....(months)

11) Your signature

11.1 *I am applying for computing resources as described in this form and I am eligible for Research Council support. I understand that all users of these resources will be required to comply with the HPCx Terms and Conditions of Access.*

Signature:.....

Date:.....

11.2 Are you a permanent member of staff at your host institution?

Yes / No

↳ If not, your Head of Department or Director must countersign the form.

Countersignature

Countersigned:.....

Date:.....

Name (block letters):

Position:

12) Signature of your local Computing Services Director

This application is an appropriate request for national supercomputing resources and a suitable means of network access to the Supercomputer Centre is available.

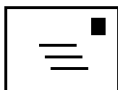
Signature:.....

Date:

Name (Block letters):.....

Completion of this form will imply permission for user details to be stored in the Computer Centres' and Research Councils' databases and to be used for mailing, accounting, reporting and other administrative purposes.

Where to send your application:



Class 1 applications are peer-reviewed. This form should be sent to the appropriate Research Council with the Research Council's proposal form.

Class 2 applications for pump-priming time may be sent, at any time, to Liz Sim, EPCC, University of Edinburgh, JCMB, The King's Buildings, Mayfield Road, Edinburgh EH9 3JZ.

If you have any queries or require any assistance, please contact Dai Jenkins, email Dai.Jenkins@epsrc.ac.uk or see our website for further information www.epsrc.ac.uk/hpc

Section 2: Technical Assessment
(Class 1 applications only)

guidance note for Section 2

A technical assessment of your proposal must be obtained from EPCC **prior** to submission to a Research Council. For **new HPC users** the Principal Investigator should submit a draft case for support together with code and test data to **both** the HPCx and CSAR services. The services will run the test code and will report back to you, within two weeks, on the suitability of their service and will provide the technical assessment. You should then decide which service you wish to use and finalise your research proposal. **Experienced HPC users**, confident of the service they require, should submit their research proposal together with the appropriate HPC application form(s) to the service(s) they wish to use, so that a technical assessment can be undertaken. However, they should fully justify their choice of service in the case for support.

After the technical assessments have been obtained, the proposal, together with the research grant application form and the appropriate HPC application form (s) should be sent to the Research Council for processing

To be completed by Principal Investigator

PI Name:.....
Department/Institution:
Project Title:.....
New HPC User?.....

Technical Assessment: To be completed by EPCC

Date received:

The computing resources requested at.....can / cannot be provided.

Comments (Suitability of work for machine, any extra costs, software requirements, suitability for joining existing consortium or forming new consortium?):

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.....
.....
.....

Notional Cost requested:

Revised Notional Cost:.....

Signed:.....Date:.....Position: