Note for Research Councils and Manchester Computing:

Please complete part B (at the end of the form):

Grant Reference Number:	

Application for CSAR National Supercomputing Resources

Full guidance on completing this form can be found at: http://www.csar.cfs.ac.uk/project management/applying/guide notes.shtml

Should you require further assistance with this form, then please contact the Helpdesk on 0161 275 5997

Part A - to be completed by the applicant

To which re	esearch council	are you applyi	ng for funding	: (please tick)
☐ EPSRC	☐ NERC	BBSRC	☐ ESRC	☐ PPARC
Project Title	e:			
Your conta	ct details:			
Name:				
Institution:				
Email:				
Phone:				
Class of Pr	oject: (please tid	ck)		
Class 1		Class 2		☐ Class 3
Council's resear your scientific I large disk, mass see: http://www.c	ch grant application for project and justify you storage, large CPU et epsrc.ac.uk/hpc)	m along with this appli ur requirement for the c.) Work as part of a co	cation form. Your ca e chosen resource onsortium is preferre	es should be made using your Research ise for support should include details of for example, requirement for large memod. (For more information on consortia, ple
class 1 application		ss 2 time should be ma		s months for 'pump-priming' to prepare for ther with a half to one page case for support.
support for users of training and a	s in new HPC application	on areas. Trading of re plications for class 3 ti	source types shall be	type of allocation is focussed on providing restricted to include a mandatory eleme on this form together with a half to one page.

5)	Are you planning to carry out this computational work as part of a Consortium?					
		YES: as part of the existing Consortium: (please give name of Consortium and name of the Principal In	ovestigator)			
•						
•		YES: I will be forming a new Consortium: (please give details)				
	NO: this work is not suitable for a Consortium because:					
6)	Project Re	esources				
6.1		nplete the form at http://www.csar.cfs.ac.uk/cgi-bin/ge printed version of the output along with this application				
		te that we will be unable to process your applicad copy of the Resource Calculator form.	ation form without a			
	Re CSAR	training: you may wish to allow for travelling expens	es to cover this as well.			
	Re CSAR support: the recommendation from the Research Councils and CSAR is that one day of support should be allocated for every 5000 CPU hours requested. New users/codes are likely to require more than this guideline and experienced users with experienced codes will require less. Groups who have used this resource have experienced considerable benefits.					
6.2	Proposed :	start date of CSAR use:				
6.3	Duration: (months)				
6.4	Expected r	number of collaborators who will need usernames:				

7)	The So	ftware you intend to use				
7.1	Please list the major codes you intend to use against the two categories below:					
	Own co	des:				
	3 rd Party	y applications:				
7.2	How ha	ve you estimated the resources requested?				
	(e.g. pre	evious CSAR usage – please give CSAR project number)				
7.3	Do you plan to carry out further code development: (please tick all that apply)					
		NO				
		YES: wholly within my own group				
		YES: with CSAR support				
		YES: with other support – please specify:				
7.4	(<u>NB</u> : Lar	intend to regularly use more than 256 CPUs or 256GB RAM in any one simulation? ge jobs are given priority on the CSAR supercomputers, and users are encouraged to aim running large simulations wherever this suits their research.)				
		NO: I have no need for this type of work because:				
		YES: But, further development of the code(s) is necessary.				
		escribe how you intend to develop the codes, indicating any known issues (such as scalability, data nent, or visualization requirements):				

Largest job:	T				T
Machine Type	Number	of CPUs	Memory	Disk	Time
Please estimate as	s best as yo	ou can the p	rofiles of the pro	duction jobs you	intend to run:
		Largest jo	b	Smallest job)
Number of Proces	sors				
Memory (Gb)	Memory (Gb)				
Disk (Gb)					
Time (Hrs)					
% of such jobs					
Dissemination					
Will you provide a the CSAR website	description and contrib	of your wor oute to the C	k and a list of pu CSAR Focus new	blications for pub sletter and the A	licity, includin nnual Report?
	YES			\square NO	
Please describe yo	our dissemi	nation strate	egy:		

9)	Other requirements
	e.g. software in addition to that currently available, or for moving large amounts of data regularly across the network, or to export magnetic tapes
10)	CSAR is a flexible service and is able to expand and adapt to meet your requirements.
	Please describe any specific requirements (over and above the current service limits) that could enhance your research:
11)	Your signature
11.1	I am applying for CSAR National HPC 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 conditions of use defined by the Research Councils and the University of Manchester.
	Signature:
	Date:
44.0	
11.2	Are you a permanent member of staff at your institution?
	YES
	NO: The form must be countersigned by your Head of Department or Director.
	Countersignature:
	Date:
	Name: (print)
	Position:

12) Signature of your local Computing Services Director

of network access to the Supercomputer Centre is available.
Signature:
Date:
Name: (print)

This application is an appropriate request for National HPC resources and a suitable means

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

Where to send your application:

Class 1

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

Class 2 and 3

Class 2 or 3 applications should be sent to:

Dr Mike Pettipher Manchester Computing University of Manchester Oxford Road Manchester M13 9PL

Part B - Technical assessment (Class 1 applications only)

A technical assessment of your proposal must be obtained from Manchester Computing **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

<u>Principal Investigator:</u> to be completed **before** sending to Manchester Computing

PI Name:	
Department/Institution:	
Project Title:	
New HPC user?	Yes/No
Technical assessment: to be completed	d by Manchester Computing
Date Received:	
The computing resources requested at	can/cannot be provided.
Comments:	
Signed:Date:	Position: