



## DiRAC Resource Allocation Committee

### Application for 2020-21 DiRAC Director's Discretionary time

#### 1 Purpose

The DiRAC Director of Innovation & Technology will make a number of large discretionary awards of DiRAC time on two services during the period August 2020 – March 2021. These awards will be made to proposals of outstanding scientific interest and timeliness and which can demonstrate that they would benefit significantly from concurrent access to large numbers of nodes. Up to 18.75M x86 core hours and 100k gpu-hours may be available and individual allocations of up to 5M (x86) and 40k (GPU) will be considered.

#### 2 Instructions

- Please fill in the form below and send to [dirac-support@epcc.ed.ac.uk](mailto:dirac-support@epcc.ed.ac.uk)
- The deadline for your application is 5pm on Friday 31st July 2020.
- The maximum individual allocation of time via this call will be 5M x86 core hours and/or 40,000 gpu-hours.
- If you wish to discuss the size of your application in terms of core hours and/or number of nodes, please contact The Director of Innovation and Technology, Jeremy Yates ([j.a.yates@ucl.ac.uk](mailto:j.a.yates@ucl.ac.uk)).

##### 2.1 Resources Available

In this call, resources are available on:-

- the COSMA6 (Durham) service
- The Wilkes-2 (Cambridge) service
- Please see <http://www.dirac.ac.uk/resources> for a detailed description of these resources.

##### 2.2 Definition of resource hours

Resource hour units are defined as:

- **x86-core hours:** In one wall-clock hour one central processing unit (CPU) will provide one X86-core hour.  
A two-socket system would have 2 processors each with say 16 cores (cpus) which would make this a 32 core system and provide in one wall-clock hour 32 X86-core hours.
- GPU hours for the Cambridge Wilkes 2 GPU cluster: A node with two P100 GPUs would provide 2 GPU hours in one wallclock hour.

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

Personal Details of the applicant and information on the application – to be completed by the applicant

## 1 Personal Details of the applicant

<b>Name:</b>	
<b>Address:</b>	
<b>Affiliation:</b>	
<b>Position: (PDRA, Lecturer, etc.)</b>	
<b>Telephone number:</b>	
<b>Email address:</b>	
<b>Title of the project:</b>	
<b>Availability to use allocation*</b>	

\*To facilitate scheduling, please note any periods between August 2020 - March 2021 when you would not be able to make use of the allocation.

## 2 Scientific Justification for this application (Maximum ½ page) -

Note that these awards will be made to proposals of outstanding scientific interest, ambition and timeliness and which can demonstrate significant benefit from concurrent access to large numbers of nodes.

## 3 DiRAC Software and Support Requirements.

### 3.1 What are the main codes you will be using?

*Enter list of all codes, with links to descriptions if possible, in the following table:*

*(Indicate, if possible, where the codes have been developed and your own experience of running this code.)*

<b>Name of the code</b>	<b>Owner</b>	<b>Source (web address)</b>	<b>DiRAC Technical Assessment application number</b>

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

*Enter list of software requirements to support your use of DiRAC in the following table:*

Name of software	Version	Licenced? Y/N	Dependencies (if known)

**3.3 Summary of support requirements**

*Summarise any other support requirements for this project in the box below:*

**4 DiRAC resource**

The COSMA6 resource is described in detail on the DiRAC web pages: <http://www.dirac.ac.uk/resources>.

*Please indicate the amount of time required on the service you would prefer. Maximum allocations: 5M core hours.*

Service	Time in hours	Number of cores per run	Number of runs
COSMA6 (Durham)			
Wilkes-2 (Cambridge)			