# **HPC@MSI: Application for High-Performance Resources and Expertise**

This template requests basic information that will be used to assess your request for compute and storage resources at SDSC. Please provide the following information, and submit the completed document (no more than 3 pages) with your [HPC@MSI Application Form](https://www.sdsc.edu/support/hpc_uc_apply-exp.html) on the web. Applications are reviewed on a continual basis and you can expect a decision from SDSC staff within 10 business days. SDSC may contact you for clarification on this application, so please be sure your contact information is accurate. Feel free to email hpc\_msi@sdsc.edu with questions.

### **PI information**

PI Name:
Advisor Name (if postdoc):
Affiliation:
Contact e-mail:

Contact phone:

**Expertise level**
*Briefly describe your level of expertise in high performance computing and the type of support you think will be helpful in achieving your computing goals.*

### **Research problem**

### *Describe the research you plan to conduct and how the requested resources will help advance it.*

### **Resources requested**

### *Please provide a justification for compute and storage resources you are requesting. Specifically: number of core-hours; specialized nodes, such as GPU or large memory, if applicable; amount of storage for persistent data (i.e., other than scratch, which is subject to purge); and any special assistance you’ll need from SDSC staff to become productive in using the resource and achieving your research goals. Note that while awards of 500K core-hours or equivalent GPU hours, 1 GPU hour == 54 Expanse SUs, are possible, most are smaller given the exploratory nature of MSI@UC.*

### **Prior work**

### *Please describe any computational work that has already been performed and that demonstrates you are prepared to make efficient use of the requested resources.*

**Applications**

### *Briefly describe the application(s) you will be running, e.g., existing code you have developed or plan to modify, 3rd party open source or commercial software; type of parallelization, if any, etc.*

**Supporting Data**

### *If you have existing application, benchmarking, or performance data that supports your request, please provide relevant details.*

**Future plans**

*Describe how you will use results of this work to apply for future computational resources, or other sponsored research proposals.*

**Other information**

*Please provide any additional information you feel would be helpful in reviewing this request.*