**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 1: Computation Across the Curriculum**

**Lesson 3: Submitting Jobs and Running Programs**

**Exercise Instructions for Students**

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*Browse and search the full curriculum at*[*http://shodor.org/petascale/materials/semester-curriculum*](http://shodor.org/petascale/materials/semester-curriculum)

*We welcome your improvements! You can submit your proposed changes to this material and the rest of the curriculum in our GitHub repository at*[*https://github.com/shodor-education/petascale-semester-curriculum*](https://github.com/shodor-education/petascale-semester-curriculum)

*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

The following exercise is expected to be completed by the students:

1. Login to the super computer using SSH.
2. Transfer source code from their local computer to the supercomputer.
   1. Transfer the source code using scp.
   2. Transfer the source code using rsync.
3. Establish globus online credentials. Revise the documentation of globus online.
4. Revise the supercomputer documentation to establish the scheduler system as well as the execution manager.
5. Request an interactive job using the target scheduler.
6. Obtain the hostnames of the login nodes and the compute nodes.