



Open Science Grid

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The Open Science Grid (OSG) achievements benefit from engaged communities of scientists from many disciplines, all collaborating in an effort to build, maintain and use the US national distributed infrastructure. The continued success of the Open Science Grid depends on such sustained efforts to ensure the longer-term growth in the scale of the resources and the number of scientific users, increased functionality, usability and robustness of the middleware, and educates and trains the future workforce.

OSG activities and evolution are based on overarching principles and best practices, which we aim to base on theoretical foundations of the field of distributed computing. Computer Science is that scientific domain that studies and provides these foundations.

Computer Scientists can both use the OSG as a “laboratory” for studying and developing their ideas and research methods, and contribute needed concepts and methods relevant to the OSG mission. Both these approaches contribute to the future health and success of the program.

The Open Science Grid Computer Science Student Fellowship provides for one year of funding to a graduate or undergraduate student in Computer Science. The fellowship provides funding for up to 20 hours a week for computer science research of value both to the OSG and the broader community. The Fellowship is offered for the institutions that are funded as part of the OSG project at the time of application and delivery of the research.

The CS Fellowship program consists of:

- The Project Manager sends a solicitation for applications to the CS Fellowship to the OSG organizational PIs and Council members before May 1st of each year.
- Application submission by June 1 of each year.

The application consists of a few page description of the research to be performed with the goals of the work; the research sponsor or mentor and student’s information; and the proposed budget and timeline. The mentor is expected to be familiar and committed

enough to OSG to act as the liaison to the project, answer the student's questions about OSG etc.

- A committee of 3 members of the OSG Consortium (of which at least one is from the OSG Council, and one from the OSG staff) will review the applications. The committee is appointed by the OSG Technical Director and makes a recommendation on the selected candidate to the Executive Team. The Executive Team makes the final selection by July 1.
- Once the candidate is selected the funding is included in the SOW for the institution for the following fiscal year. The funding period is expected to start at the beginning of the academic year and last 12 months.
- Guidance and ongoing help for the Fellow is the responsibility of the mentor in collaboration with identified OSG staff.
- During the Fellowship itself the fellow will submit quarterly reports to the OSG Executive Board on the progress of the research. The OSG project management will organize two meetings during the time of each fellowship where the student and sponsor will present details of the work for discussion and feedback.
- It is expected the student will write and publish a paper in a peer-reviewed journal during the time of the fellowship. Papers written will be available from the OSG document repository.
- There is no requirement for code development. However, any code developed as part of the research will be available for further use by the OSG.
- The OSG Executive Team will work with the mentor on any issues or concerns during the life of the fellowship.

At the end of each fellowship the committee that selected the Fellow will meet to review the success of the research and give input for future work of the student and for the future of the OSG CS Fellowship.