

## TeraGrid

The HPC cluster maintained at CWRU is of a modest size in comparison with other HPC / supercomputer resources in the country. While our resource serves well for many research uses, it is not of adequate size to handle larger computational tasks that can require several hundred or several thousand simultaneous processors. For those larger jobs, there are other resources available to CWRU researchers. One such resource is TeraGrid.

TeraGrid is an open scientific discovery infrastructure funded by the National Science Foundation to support computationally and data intensive research. The TeraGrid is coordinated through the Grid Infrastructure Group (GIG) at the University of Chicago. Supercomputing resources are provided by 'resource providers' at Indiana University, the Louisiana Optical Network Initiative, National Center for Supercomputing Applications, the National Institute for Computational Sciences, Oak Ridge National Laboratory, Pittsburgh Supercomputing Center, Purdue University, San Diego Supercomputer Center, Texas Advanced Computing Center, the University of Chicago/Argonne National Laboratory, and the National Center for Atmospheric Research.

Use of TeraGrid requires an application process and results in an allocation of resource units on one or more resource providers. In general, jobs are more constrained in terms of walltime than on our local HPC cluster and queue times are usually longer. However, it is possible to use a much larger number of simultaneous processors in a single job, so it is well-suited to massively parallel jobs. For more about the TeraGrid, see the website: [www.teragrid.org](http://www.teragrid.org).

For more information about using the TeraGrid go to <https://sites.google.com/a/case.edu/advanced-research-computing/Home/using-the-teragrid>.