



NASA Center for Climate Simulation: Funding for Researchers

High-Performance Computing for NASA

The NASA Center for Climate Simulation (NCCS) provides high-performance computing for NASA-sponsored researchers through the “Discover” supercomputing cluster (<https://www.nccs.nasa.gov/systems/discover>) and the Advanced Data Analytics Platform (ADAPT) Science Cloud (<https://www.nccs.nasa.gov/systems/ADAPT>). Discover and its ecosystem of system software and tools is particularly suited for analyzing large, complex, communications-intensive problems employing large matrices and science applications. ADAPT is a large-scale data analytics platform that incorporates storage, compute, and cloud computing capabilities in a managed virtual machine (VM) environment designed for large-scale data analytics.

How to Become an NCCS User

To gain access to NCCS supercomputing, cloud, and analytics resources on Discover and ADAPT, users must *first* be(come) a NASA-sponsored researcher. Second, Discover users must request an allocation of computing time. Third, with your allocation approved, apply for an NCCS User Account. These steps are further detailed below.

1. Become a NASA-Sponsored Researcher:

- Find helpful links at NASA’s Library for Researchers: <https://science.nasa.gov/researchers/sara/library-and-useful-links>.
- Periodically review funding opportunities (solicitations) on the NASA Solicitation and Proposal Integrated Review and Evaluation System (NSPIRES): <https://nspires.nasaprs.com>.
- For example, see the Science Mission Directorate (SMD) Omnibus “ROSES 2020” Research Solicitation at <https://solicitation.nasaprs.com/ROSES2020>. From there, you can subscribe to ROSES update e-mail lists and RSS feeds and locate the Google calendar of due dates.
- Submit a proposal to an SMD solicitation. Follow the instructions given in Section I.(d) of the ROSES Summary of Solicitation. Any need for NASA High-End Computing (HEC) Program computing time and other resources for the proposed research must be explicitly justified by completing an allocation request form and submitting it with your proposal (see Step 2).

2. Request an Allocation:

Once you are an official NASA-supported researcher, request an allocation of high-end computing time from the NASA HEC Program through the Request Management System: <https://request.hec.nasa.gov>.

3. Apply for an NCCS Account:

Once you have that allocation, apply for an official NCCS User Account via <https://www.nccs.nasa.gov/nccs-users>.

Since NASA funding proposals, allocation approvals, and NCCS User application approvals take time, planning ahead is critical. Once you are officially a NASA-supported researcher with allocated computing time and an approved NCCS User, we can help you find the best NCCS resources to analyze your data!



<https://www.nccs.nasa.gov>