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. Contact the NSPIRES Help Desk at nspires-help@nasaprs.com or (202) 479-9376 for information on using NSPIRES.
   - See the Science Mission Directorate (SMD) annual omnibus Research Opportunities in Space and Earth Sciences (ROSES) solicitation on NSPIRES by filtering for the Omnibus category. By registering in NSPIRES, you can subscribe to ROSES update email lists and RSS feeds and locate the Google calendar of due dates. ROSES offers funding opportunities ("Program Elements") across all NASA science topics.
   - Submit a proposal to an SMD solicitation. Follow the instructions given in 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.

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!

NCCS
NASA CENTER FOR CLIMATE SIMULATION
HIGH-PERFORMANCE SCIENCE

https://www.nccs.nasa.gov