

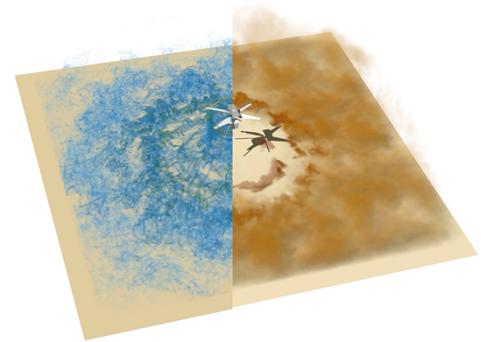


Requesting and Using High-End Computing Time at NASA

Overview

NASA operates two High-End Computing facilities: the NASA Center for Climate Simulation (NCCS) at Goddard Space Flight Center and the High-End Computing Capability (HECC) within the NASA Advanced Supercomputing Division (NAS) at Ames Research Center. If your research is funded by NASA and you are affiliated with a U.S. organization, you may be eligible to use time on NASA's supercomputers.

Researchers who are funded through NASA's Research Opportunities in Space and Earth Science (ROSES) solicitation are guaranteed a computing time allocation. Whether through ROSES or another mechanism, NASA funding is tightly coupled to your allocation. The size of the allocation depends on system capacity, overall demand for resources, and other Agency priorities.



Request Process

NASA High-End Computing uses the Request Management System (RMS) for computing time requests.

Log In to RMS

Visit <https://request.hec.nasa.gov> to log in to RMS. If you have a NASA Identity, you can log in using your existing credentials from NASA's Launchpad system. Users who do not have a NASA Identity must log in using a NASA Guest Account, available from <https://guest.nasa.gov>. The email address in your RMS profile must match the email in your NASA Identity or your NASA Guest Account.

Who needs to use RMS?

- Principal Investigator (PI): whoever holds the funding.
- Computational PI (CPI): whoever the PI identifies as their proxy for the computational project.

Request Computing Time

NASA high-end computing uses a single-step process for collecting multi-year requests. Use RMS to

- Request an allocation.
- Change an allocation.
- Change the computational project's end date to match your funding.

Enter your request information:

- Investigator information.
- Computational project information — indicate whether this request continues an existing Group Identifier (GID).
- Funding information — your request will have the same duration as your funding.
- Requested allocation information in Standard Billing Units (SBUs) or Graphics Processing Unit SBUs (GSBU) — RMS provides an SBU calculator.

Change your requested allocation:

- Increase or decrease your allocation (entering a negative number is a decrease).
- Request a new end date to ensure that the request and the funding end at the same time. No-cost extensions to grants should be requested through NASA Shared Services Center.

Wait for the allocation decision:

The Science Mission Directorate allocates quarterly; emergencies will be dealt with on a case-by-case basis. Other Mission Directorates allocate at the beginning of the fiscal year off-cycle requests are dealt with on a case-by-case basis. The PI will be notified when an allocation has been made and should share this information with their team as appropriate.

Set Up a NAS or NCCS Account

A NAS or NCCS account is not the same as an RMS profile. Visit the NAS and NCCS websites for directions:

<https://www.nas.nasa.gov/hecc/accounts/getaccounts.html>

<https://www.nccs.nasa.gov/nccs-users/instructional/account-set-up>

Note: You must take IT Security training (specifically the current year's Cybersecurity and Sensitive Unclassified Information Awareness Training Course) in NASA's SATERN system for NAS or NCCS to approve your account and annually thereafter to maintain access.

Submit Jobs

NAS and NCCS User Services can help you with technical details of submitting and processing jobs, as well as with analyzing and visualizing your results. Contact the appropriate team for more details.

Manage Your Data

At the end of your computational project, please move your data to an appropriate archive or your home institution's storage resources in accordance with your project's data management plan.

Get Help

Websites

NASA High-End Computing (HEC): <https://www.hec.nasa.gov>

NASA Center for Climate Simulation (NCCS): <https://www.nccs.nasa.gov>

NASA Advanced Supercomputing Division (NAS): <https://www.nas.nasa.gov>

NASA High-End Computing Capability (HECC): <https://www.nas.nasa.gov/hecc>

User Services

For help requesting computing time, including questions about RMS: support@hec.nasa.gov

For help setting up and submitting jobs at NAS: support@nas.nasa.gov

For help setting up and submitting jobs at NCCS: support@nccs.nasa.gov