



Recent CC* Awards

Frank Wuerthwein
Executive Director, OSG





CC* Solicitation (NSF 22-582)



OSG's Support for Campus Cyberinfrastructure Proposals and Awardees

Upcoming Deadline: June 27th, 2022

The National Science Foundation Campus Cyberinfrastructure (CC*) program (NSF 22-582) invests in coordinated campus and regional-level cyberinfrastructure improvements and innovation. The 2022 solicitation has two program areas, both of which explicitly mention and encourage the use of OSG services to meet requirements.

The NSF supports awards in 2 CC* program areas:

- Data Storage awards, which mention the OSG [Open Science Data Federation](#), encouraging responses that would add data origins or caches at campuses
- Regional Computing awards, in which the NSF strongly encourages joining PATH, and using our services to contribute to the [Open Science Pool](#)

Let OSG Help with your CC* Proposal

The [Partnership to Advance Throughput Computing \(PATH\)](#), which develops technologies and operates services for the OSG, has significant experience working with CC* applicants and awardees, and offering letters of support and consulting for:

- Sharing data with authorized users via the [Open Science Data Federation \(OSDF\)](#)
- Bringing the power of high throughput computing via the [OSPpool](#) to your researchers
- Gathering science drivers and planning local computing resources
- Meeting CC*-required resource sharing as specified in (NSF 22-582), and other options for integrating with the OSG Consortium
- Providing connections to help with data storage systems for shared inter-campus or intra-campus resources
- Building regional computing networks
- Developing science gateways to utilize high throughput computing via the [OSPpool](#)

Contents

- How OSG can help your proposal
- How OSG supports Awardees
- Actively Supported Colleges
- CC* Impact on Open Science
 - Computing
 - Data Storage

- \$500,000 over 2 years
- Up to 25% labor
 - \$375k hardware => **Roughly 5PB of usable storage**
 - \$125k labor
- From the solicitation:
 - At least 20% of the disk/storage space on the proposed storage system must be made available as part of the chosen federated data sharing fabric.

=> **Roughly 1PB for sharing with community**



4 Regional Compute & 9 Storage awards



2232810	Kneifel, Charles	Duke University	CC* Data Storage: Flexible Affordable Scalable Technology for Research Storage (FAST-Research Storage)
2232873	Florinski, Vladimir	University of Alabama in Huntsville	Research Infrastructure: CC* Regional Computing: A Regional Computing Hub for Alabama Universities
2232816	Aygun, Ramazan S	Kennesaw State University Research and Service Foundation	CC* Data Storage: High Volume Data Storage Infrastructure for Scientific Research and Education at Kennesaw State University Shared as Open Science Data Federation Data Origin
2232862	Cleveland	University of Hawaii	CC* Data Storage: KoaStore: A High Performance and Flexible Research Storage Resource
2232872	Gough	Purdue University	CC* Data Storage: Software Defined Storage for Composable and HPC Workflow
2232601	Li	University of Washington	CC* Data Storage: Supporting Big-Data Edge Computing using Hybrid and Cloud-Native Storage Infrastructure
2232803	Nabrzyski, Jaroslaw	University of Notre Dame	CC* Data Storage: Institutional Storage for the University of Notre Dame (NDStore)
2232857	Montes	American Museum Natural History	Research Infrastructure: CC* Data Storage: Multi-Petabyte Open Storage (MPOS) at the American Museum of Natural History
2232851	Weitzel	University of Nebraska-Lincoln	CC* Data Storage: NRDStor: Nebraska Research Data Storage
2232817	Sun, Qi	New York University	CC* Data Storage: Distributed, Fast, Scalable Infrastructure for Emerging Media Research Data
2232628	McKee, Shawn	University of Michigan	CC* Regional Computing: Helping Our Researchers Upgrade their Science (HORUS)
2232860	Kramer, William T	University of Illinois at Urbana-Champaign	CC* Regional Computing: Taylor Geospatial Institute Regional AI Learning System
2232917	Kesselman, Carl F	University of Southern California	CC* Regional Computing: Building Cyberinfrastructure to Forge a Regional Research Computing Alliance in Southern California

- We should expect significant growth in the amount of data available to the OSDF via Data Origins.
 - The awardees are an interesting mix of known participants in the OSG Consortium & new institutions.
 - At least one of the awardees intends to bring data into OSDF beyond the CC* award.
- The combination of the PATH facility compute power, and the new data origins should make for an interesting new addition to OSG modalities of use.

- This work was partially supported by the NSF grants OAC-2112167, OAC-2030508, OAC-1841530, OAC-1836650

