CSU CIO Council TIDE Update
April 19, 2024

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https://tide.sdsu.edu/
● Project Update
● 5NRP Conference
● CENIC: Award and CENIC-AIR
● Next Steps
● Quick Links
Award Details

- National Science Foundation, Campus Cyberinfrastructure (CC*): Regional Computing (Area 5), [Award # 2346701](https://tide.sdsu.edu/)

- Two year award: 1/1/2024 - 12/31/2025

- Total award: $991,749
  - Server Hardware: $739,921
  - Graduate student assistants at four campuses: San Diego, San Bernardino, Humboldt, and Stanislaus.
  - Personnel costs at San Diego Supercomputer Center
  - Yearly travel for project meeting

[https://tide.sdsu.edu/](https://tide.sdsu.edu/)
Project Update

- TIDE hardware integrated into Nautilus (NRP) on April 1st
- Grad student hired at SDSU
- Initial science drivers identified by four campuses and active engagement to enable their use of TIDE
- Website and documentation work continues
- CSU-wide JupyterHub deployed and available for campuses without their own instance(s)
- CO developed ServiceNow request intake process
  - CSU users can submit TIDE Support Requests from the TIDE website
  - TIDE Support Team will facilitate access to JupyterHub or assist with more complex workflows
Project Update: JupyterHub

- **CSU-wide JupyterHub** deployed
- “Easy button” access to TIDE hardware and NRP
- **Commonly used containers** available for use
- Integrated with CILogon for campus authentication
  - Missing CSU Bakersfield, Cal State LA, and CSU Monterey Bay from CILogon IDP list
- TIDE Support Request required to be granted access

[Links and logos]

[https://tide.sdsu.edu/]
CSU was well represented, with attendees from San Diego, San Bernardino, Humboldt, and Northridge

Presentations from several CSUs
- San Diego - VERNE Instructional Usage, TIDE and RONs
- San Bernardino - JupyterHub for Instruction
- Northridge - Dr. Bingbing Li on use of NRP for research/lab

Keynote by Katie Antypas, director of the Office of Advanced Cyberinfrastructure (OAC) at NSF, as well as leading the National AI Research Resource (NAIRR) initiative
- Lunch breakout with Katie and Kevin Thompson from NSF
- Education was a big topic and enabling our future workforce
CENIC Honors San Diego State University and the San Diego Supercomputer Center for their Roles in Developing the Technology Infrastructure for Data Exploration (TIDE) Project

- Project team accepted the award at the CENIC conference in Monterey, CA on March 26, 2024
- Many members of the team also participated on a panel discussion titled: Bootstrapping Cyberinfrastructure within the CSU

2024 Innovations in Networking Award for Research Applications

CENIC Recognizes CSU San Bernardino's High Performance Computing Program for Improving CSU Access to National Research Platform Resources


https://tide.sdsu.edu/
CENIC has been working with UCSD and the CSU to create an ecosystem of resources to support AI work called the CENIC AI Resource (CENIC-AIR)

Think of CENIC as the California resources within the NRP (Tom and Larry prior presentation)

Initial launch focus on CENIC AIR is new flexible science networking opportunities for campuses

https://cenic.org/initiatives/cenic-air
Next Steps

● Upcoming trainings and webinars
  ○ July - Intro to TIDE webinar
  ○ August - Hands-on use of TIDE, focusing on AI/ML
  ○ September - CalStateTech conference

● Fall office hours

● Continuing to build out documentation

● How can we get help communicating training and webinars?
GPU Hours Allocated
Top 25 Namespaces

CPU Hours Allocated
Top 25 Namespaces

TIDE Hardware Usage
4/1/24 - 4/18/24

Next Steps: Call to Action

https://tide.sdsu.edu/
Quick Links

**TIDE Website**
[https://tide.sdsu.edu/](https://tide.sdsu.edu/)

**TIDE GitHub Org**
[https://github.com/csu-tide](https://github.com/csu-tide)

**TIDE GitHub Documentation**
[https://csu-tide.github.io/](https://csu-tide.github.io/)

**Using TIDE (Request Support)**
[https://tide.sdsu.edu/usingtide/](https://tide.sdsu.edu/usingtide/)

**TIDE JupyterHub**
[https://csu-tide-jupyterhub.nrp-nautilus.io/](https://csu-tide-jupyterhub.nrp-nautilus.io/)

**TIDE YouTube**
[https://www.youtube.com/@csutide](https://www.youtube.com/@csutide)
Q&A