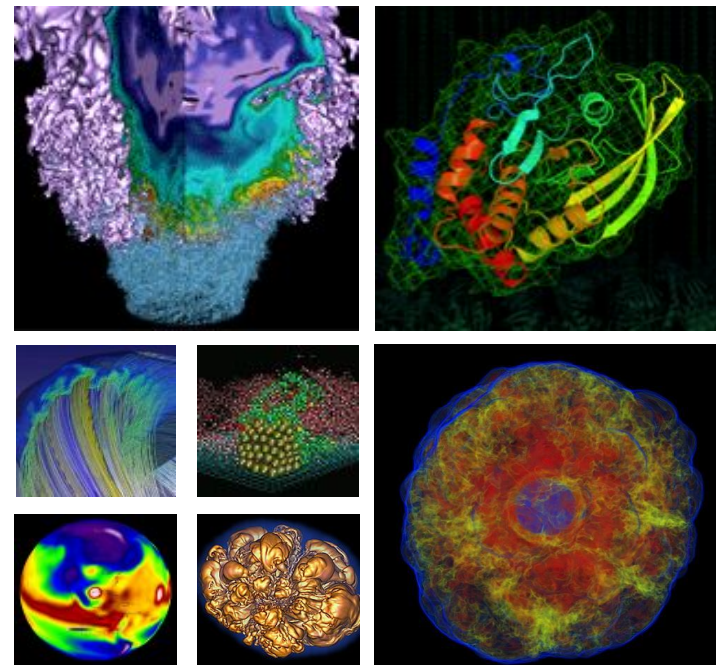


# NUG Monthly Meeting



19 January, 2023



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science



# Today's plan



- Interactive - please participate!
  - Raise hand or just speak up
  - [NERSC User Slack](#) (link in chat), **#webinars** channel
- Agenda:
  - Win-of-the-month
  - Today-I-learned
  - Announcements/CFPs
  - Topic of the day: **User Community Engagement**. NERSC's Rebecca Hartman-Baker will provide an overview of NERSC's strategy for engaging with the user community.
  - Coming meetings: topic suggestions/requests?

# Win of the month



Show off an achievement, or shout out someone else's achievement, e.g.:

- Had a paper accepted
- Solved a bug
- A scientific achievement (maybe candidate for Science highlight, or **High Impact Scientific Achievement award**)
- An **Innovative Use of High Performance Computing** (also a candidate for an award) (<https://www.nersc.gov/science/nersc-hpc-achievement-awards/>)

Please let us know of award-worthy work from you or your colleagues - tell us what you did, and what was the key insight?

# Today I learned



What surprised you that might benefit other users to hear about?  
(and might help NERSC identify documentation improvements!)

Eg:

- Something you got stuck on, hit a dead end, or turned out to be wrong about
  - Give others the benefit of your experience!
  - Opportunity to improve NERSC documentation
- A tip for using NERSC
- Something you learned that might benefit other NERSC users

"If we knew what it was we were doing, it would not be called research, would it?" - Einstein

# Announcements and CFPs



## AY23 has started!

- If you were dropped from your project: your PI may have forgotten to indicate continuing users in [iris.nersc.gov](https://iris.nersc.gov). Ask your PI to add you back to the project, via "Roles" -> "From last year" in iris.
- Appropriate Use Policy and Code of Conduct - you will need to log in to iris, read and attest to your agreement to these policies. **Deadline is Feb 20**, after which accounts not accepting those policies will be discontinued
- Separate allocations for CPU and GPU resources

# Announcements and CFPs



- **Perlmutter is currently under maintenance**, expected to return to service by 10pm. We are working to address issue with Perlmutter SCRATCH performance and intermittent availability
- **Job preemption on Perlmutter:**
  - All jobs in the "overrun" queue are subject to preemption by higher priority jobs, in some circumstances
  - Jobs submitted to the "preempt" queue will receive a heavy discount (and are **free of charge** for the first month)

# Announcements and CFPs

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**NERSC User Survey** is now open

You should receive an email with a link to the survey

Survey is important for NERSC planning, and reporting to DOE. Most significantly, it is short! And partially-filled in is more helpful than no response - please fill out the questions you can!

# Announcements and CFPs

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See weekly email for these upcoming events:

- Nominations for Rising Star workshop open until Jan 23. Places for 30 women in final year of PhD or within 3 years of graduating. Workshop will be held April 12-13 in Austin, TX
- CUDA to SYCL Tool - training Jan 25
- International HPC Summer School - applications due Jan 31. Grads/postdocs from institutions in Canada, Europe, Japan, Australia or US; Summer school is July 9-14 in Atlanta, GA
- BerkeleyGW tutorial and Berkeley Excited States conference Feb 13-17
- OLCF Frontier training Feb 15-17
- Argonne Training Program on Extreme-Scale Computing - July 30 - Aug 11 in Chicago area. Application deadline is March 1



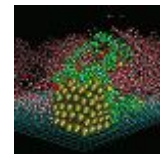
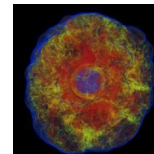
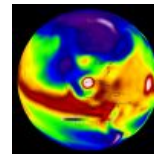
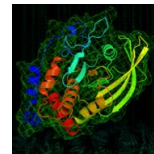
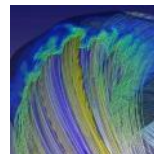
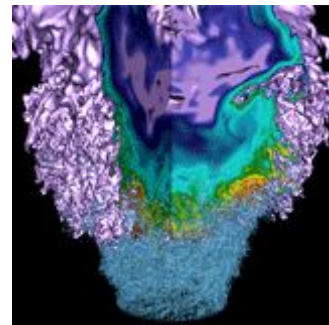
# Announcements and CFPs

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Others?

# User Community Engagement



Rebecca Hartman-Baker  
NERSC User Engagement

# About the NERSC Community

**~9,000** ANNUAL USERS FROM **~800** Institutions + National Labs



**27%**  
Graduate  
Students



**17%**  
Postdoctoral  
Fellows



**14%**  
Staff  
Scientists



**11%**  
University  
Faculty



**7%**  
Undergraduate  
Students



**6%**  
Professional  
Staff



**59%** Universities



**29%** DOE Labs



**5%** Other  
Government Labs



**3%** Industry



**1%** Small  
Businesses



**<1%** Private Labs

# NERSC Community Engagement

NERSC's diverse users, PIs, vendors, & staff have many shared interests:



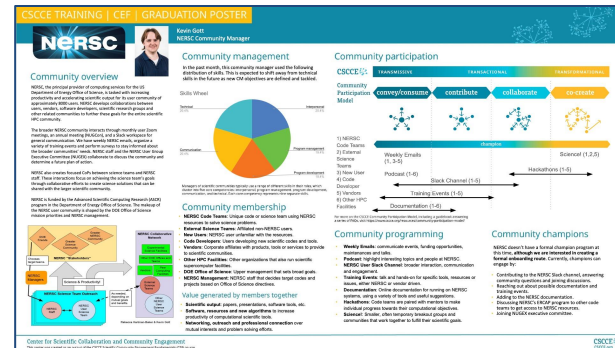
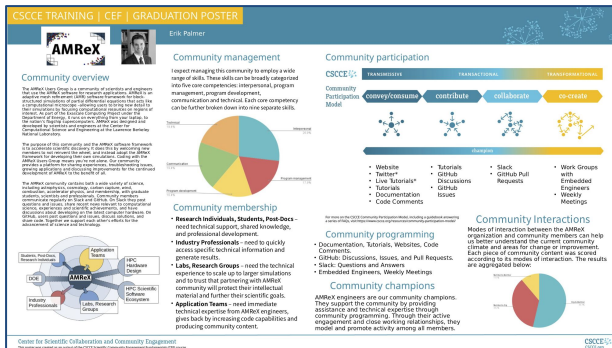
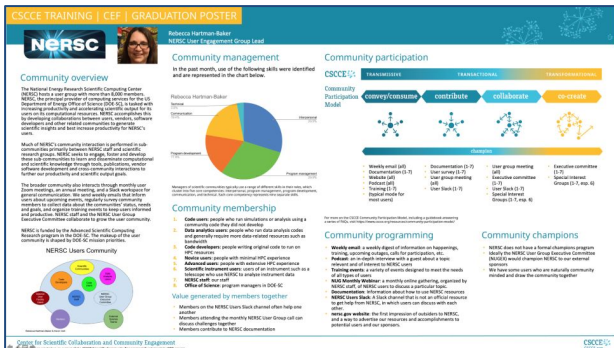
There are many opportunities for collaborations, interactions and learning experiences to be had across our community, but these are not currently happening.

NERSC wants to help make this and more happen!

# Community Engagement

NERSC staff have taken dedicated steps to learn about initiating and managing broader scientific community engagement programs.

## Center for Scientific Collaboration and Community Engagement Scientific Community Engagement Fundamentals



# NERSC Community Engagement Goal

## Creating a NERSC User Community of Practice!

A **Community of Practice** requires

- A shared domain of interest
- An actively cultivated & maintained sense of community
- Active practice of the shared domain of interest

# Why Create a Community of Practice?

- Share expertise across fields
  - Many commonalities between workflows, job scripts, data challenges across science areas
- Increase NERSC user confidence
  - With support of fellow enthusiasts, gain new skills & broaden your abilities
- Improve NERSC user practices
  - Better use of NERSC resources helps you & NERSC both

# First Step: Code of Conduct

## Best practice for communities: implement a Code of Conduct

- Articulates community's values & principles
- Sets expectations for behavior within a community
- Empowers community members to handle conflicts & ethical challenges

## New NERSC Code of Conduct:

- Articulates community values within context of NERSC, nothing unexpected
- Applies to entire community, including staff, users, vendors, speakers, etc.
- Currently being signed by all NERSC account-holders as part of Appropriate Use of NERSC Resources (log into Iris to attest to your agreement)



# Contents of Code of Conduct

- Promotes values of collaboration, kindness, & respect within NERSC user community
- Based on the Berkeley Lab Stewardship Values:
  - *Team Science*: We are all NERSC users, & leave scientific rivalries at the door
  - *Service*: We help each other & make the community better for everyone
  - *Trust*: We behave ethically & treat each other with honesty & respect
  - *Innovation*: We create a safe environment that welcomes all constructive input
  - *Respect*: We respect & value each other inherently as human beings
- Details resources for cases of misconduct
- Accompanied by FAQ with more info on NERSC's Code of Conduct implementation

# Overview of Community of Practice Development Plan

Strategy	Engagement Types	Engagement Topics
<ul style="list-style-type: none"><li>• Smaller, targeted groups</li><li>• Cross-disciplinary &amp; cross-project</li><li>• Inclusive &amp; safe</li><li>• Empowering community to make decisions &amp; lead</li><li>• NERSC provides resources, expertise, guidance</li><li>• Ultimately, spaces to learn, grow, do what the community wants/needs</li><li>• <b>Community input</b> is key!</li></ul>	<ul style="list-style-type: none"><li>• Working Groups</li><li>• Mentoring Programs</li><li>• Conferences</li><li>• Conference Meet-ups</li><li>• Mixers</li><li>• Journal Club</li><li>• Training Sessions</li><li>• Hands-on Working Groups</li><li>• Coffee meet-up</li></ul>	<p>Based on community needs; could include:</p> <ul style="list-style-type: none"><li>• Technical:<ul style="list-style-type: none"><li>○ CMake</li><li>○ Fusion Energy</li><li>○ Future of Science</li></ul></li><li>• Career &amp; Networking:<ul style="list-style-type: none"><li>○ Local NUG Chapters</li><li>○ Non-technical training</li><li>○ Job Fairs</li></ul></li><li>• NERSC Focused:<ul style="list-style-type: none"><li>○ Tool design</li><li>○ Ambassador program</li></ul></li></ul>

# Next Step: Community Feedback!

- Next week, we will launch a survey to get your feedback on the types of experiences/events/etc. that you would like to see
- Also plan to hold user focus groups in March



**To make this happen,  
we need you!**

# Coming up



Upcoming topics:

- Suggestions welcome!

We'd love to hear more lightning talks **from NERSC users** about the research you use NERSC for!

Nominate a topic at <https://forms.gle/WjYx7zV7SAz2CaYz7>





# NERSC

**Thank You**



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