

Communication / announcements / request for feedback From NSD's Advanced Computing Working Group

<https://sites.google.com/lbl.gov/nsd-arc/coms>

- News items
- **Requests for feedback**
- Announcements of workshops
 - **Esp. those with registration** (e.g., AI@LBL)
- Bookmark the page - it is a living document...
- Also use the email below for any AOB pertaining to computing

Email: nsd-advanced-computing-wg@lbl.gov

NSD'S ADVANCED COMPUTING

Credit: DAL-E generated picture

PURPOSE AND SCOPE

The development of innovative, cutting-edge research computing infrastructure is a top priority for the NSD value proposition to its stakeholders, from large scale engagement in broadly understood advanced computing is diverse tasks within NSD range from FPGA computing, a standard single GPU hours to satisfy mission needs.

The Advanced Research Computing (ARC) Working Group is essential to ensure that advanced computing remains a driver of innovation within the NSD and the

COMMUNICATIONS

AI@LBL WORKSHOP

The **AI@LBL Workshop on October 7, 2024** aims to deepen our understanding of AI across all Berkeley labs and help prepare for the DOE Office of Science AI roadmaps. The workshop will focus on identifying scientific challenges that AI can address, showcasing Berkeley Lab's strengths in research, data science, and computing. Participants will collaborate to identify key investments for future AI initiatives.

Registration deadline is Friday, September 27, 2024

The workshop will be held in a hybrid format, with livestreamed introductory talks and panel discussions. Breakout sessions will be available exclusively for in-person attendees. Responses to the registration questions will help us understand your focus areas, and based on these answers, the Steering Committee and Lab will select in-person attendees to ensure diverse perspectives and expertise.

BERKELEY BIDMAP SEMINAR

September 4, 2024

This seminar series brings together STEM researchers to explore how AI can address global challenges. Our topics span from fundamental AI concepts to practical applications in climate science, materials, physical sciences, and beyond, making it a great complement to the Lab's high lab seminar.

The first seminar of the seminar will be held next Thursday at noon in Cory Hall, Room 373, at UC Berkeley.

We're thrilled to have Simon Balster from DeepMind as our speaker: <https://bit.ly/3wz3v3v>

Don't miss out - be sure to register for the seminar series by emailing bidmap_at_berkeley_edx with the subject line "Sign Up!"

OPPORTUNITY TO DEFINE THE FUTURE OF HIGH-PERFORMANCE COMPUTING

September 6, 2024

The Department of Energy's (DOE) Office of Science today announced a new research and development opportunity for the Oak Ridge National Laboratory (ORNL) to advance technology and drive new capabilities for future supercomputers. This industry research program worth \$25 million, called New Frontiers, will include partnerships with multiple companies to accelerate the R&D of critical technologies with renewed emphasis on energy efficiency for the next generation of exascale computers in the 2020s and beyond time frame.

Funding for the RFP is being provided by the DOE Office of Science's Advanced Scientific Computing Research Program. The full New Frontiers RFP can be found at <https://www.usdoe.gov/procurement/>

NSF WORKSHOP ON DATA-DRIVEN MODELING AND PREDICTION OF RARE AND EXTREME EVENTS

NOVEMBER 21, 2022

The workshop will convene experts in rare and extreme event detection and characterization representing a broad range of application domains and disciplines, including statistics, machine learning, applied mathematics, space weather, materials science, and climate modeling. This will be the first in a three-part series with contributions by researchers in earth, space, biology, and environmental science, with an