



# *CISL Cyberinfrastructure: Empowering Earth System Science Research*

## *Multiple Speakers and Discussion*

NSF NCAR's Computational Information Systems Lab (CISL) offers a wide range of resources extending far beyond its well-known supercomputing systems (Derecho, Casper, Glade). CISL's mission is to empower Earth System Science (ESS) research excellence through software, services, data, training, and computational science expertise. Examples of the some of the many ways that CISL can help advance the scientific discovery process include:

- **Data-Driven Insights:** Access and analyze curated geoscience data collections.
- **Visualization Support:** Communicate complex data effectively through compelling visualizations.
- **Open Science Education:** Become proficient in the tools of Open Science.
- **Code Optimization:** Boost the performance of your code on GPUs.
- **AI/ML Consultation:** Explore the potential of artificial intelligence and machine learning.
- **Specialized Software:** Simplify analysis, visualization, and data assimilation with software developed for the ESS community.
- **HPC:** High-performance computing resources and expertise in support of the development and execution of large, long-running numerical simulations.

**For more information:** (the schedule, speaker bios, past presentation slides and recordings will be found here) [CISL Cyberinfrastructure: Empowering Earth System Science Research website](#)

**Thursday, 14 November 2024, 2:00PM**

**Refreshments 1:45PM**

**Please also join colleagues for refreshments and informal discussion after the seminar until 3:30pm**

NCAR-Foothills Laboratory, 3450 Mitchell Lane

FL2-1022, Large Seminar

**Seminar will also be live webcast**

<https://operations.ucar.edu/live-mmm>

Participants may ask questions during the seminar via Slido or via the [Google Meet Link](#)