

Center for Advanced Computing (CAC)



FY26 Research & Education Impact

Research Impact

- **459 research projects**
- **1,718 faculty and student users** from Cornell's colleges, schools, research centers, institutes, and labs
- **7,774,178 hours computing on Red Cloud**. Virtual clusters in the cloud are available. Trial accounts are free for Cornell faculty, staff, and students.
- **20 private faculty compute clusters** hosted and maintained for researchers in AEP, Astronomy, BEE, BioHPC, CBE, CCB, CCSS, CS, Integrated Plant Science, MAE, MSE, Physics, and WCM NYC and Qatar
- **11,505 hours of research consulting** provided
- **486TBs cloud storage/1,244TBs archival storage** utilized

Grant Impact

- **Current grants:** I-WRF Weather Research & Forecasting Model (\$2M PI), Pollinator-Pathogen Dynamics (\$433K PI), HPC-ED Pilot (\$360K PI), AI for Civil and Environmental Engineers (\$7M Co-PI), Orchestration of Multi-Messenger Astrophysical Observations (\$3.6M Co-PI), Pathways to Equity in Cyberinfrastructure Utilization for Scientific Discovery (\$283K Co-PI)
- **Subawards:** Multi-Host Parasites (Entomology PI McArt/CAC Co-PI), NANOGrav (Astronomy Co-PI Cordes/CAC Cyberinfrastructure Lead), IRIS-HEP Software Innovations (Physics Lead Wittich/CAC Software), NSF Leadership-Class Computing Facility (TACC Training Partner), Jetstream2 Regional Cloud at Cornell
- **Leadership:** Chair, Coalition for Academic Scientific Computation; Empire AI Tech Advisory Committee; PEARC26 Exec Committee

Education Impact

- **7 Scientific Computing Training Series events;** 292 attendees
- **4 new Cornell Virtual Workshop topics** including Scientific ML
- **9 new training videos; 44 available** on CAC YouTube (> 85,000 views)
- **3 Data Science/Visualization Certificates** created by CAC generated more than \$13M eCornell revenue since launch
- **Classroom teaching** (e.g., ASTRO); postdocs/MEng/HS mentoring

The Center for Advanced Computing (CAC) is a core facility of the Office of the Vice Provost for Research. CAC services impact Cornell researchers by accelerating insights and discovery, strengthening grant proposals, and helping researchers meet grant deliverables faster and more effectively. Contact CAC today to explore how we can assist you: **Rich Knepper, PhD, CAC Director, 607-255-0313, rich.knepper@cornell.edu**. Learn more at **www.cac.cornell.edu**.



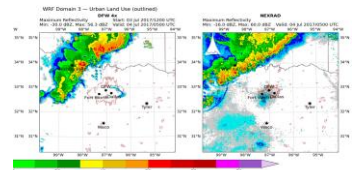
CAC launched the Seneca cluster in June 2026. Seneca features NVIDIA H100 and A100 GPUs and is accessible via compute units or a new condo model.



CAC is training partner for the NSF Leadership-Class Computing Facility that in 2026/2027 will have 10x today's performance (100x AI).



CAC is developing advanced workflows and software for data generated by the Fred Young Submillimeter Telescope installed in 2026 at 18,400 feet in Chile.



I-WRF (\$2M CAC PI) supports Cornell EAS research such as the effects of urbanization on the atmosphere. I-WRF supports Cornell postdocs, and MEng and Bronx High School of Science students.