CENIC Newsletter

December 2024

In this newsletter, you'll find information on California's research and education communities in action via the high-performance network and services CENIC provides; how your colleagues are using these services; and information about networking-related events, funds, new programs, and awards.

CENIC NEWS

Major CENIC Line System Upgrade Means Improved Provisioning and Services for CENIC Members

CENIC is pleased to announce an important milestone with the completed upgrade of the Los Angeles-to-Emeryville optical backbone to the

Cisco NCS1010 open line system. This platform is built with flexibility in mind, greatly simplifying flex-grid circuit deployments, troubleshooting, and management over the

previous Cisco NCS2000 series. [Cisco Optical Network Controller](#) (CONC) is being deployed for next-generation Layer 1 monitoring and management capabilities, with service turn-up taking place during the first half of the 2025 calendar year. **READ THE ARTICLE >**

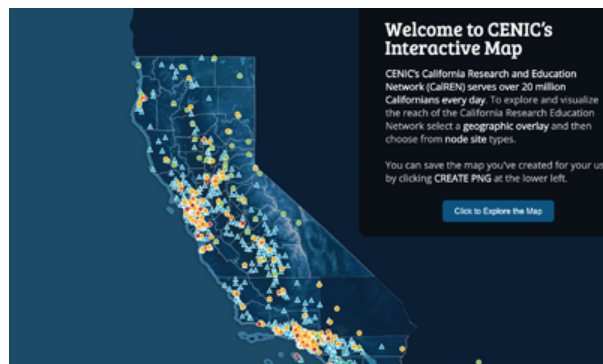## CENIC AIR and Your Campus: From Concept to Connection

More and more CENIC member institutions are connecting to the [CENIC AI Resource](#) (CENIC AIR) to facilitate AI-related research and education, machine learning, and data-driven science for faculty, researchers, and students—including the first of California's 73 community college districts to participate, the [San Diego Community College District](#).

Other campuses are in the process of connecting to CENIC AIR in fact-finding, planning, or implementation stages. Experts at connected institutions are eager to share the lessons they've learned from their experiences. **READ THE ARTICLE >**

CENIC's Interactive Community Site Map: See the full extent of CalREN segment by segment

CENIC's California Research and Education Network (CalREN) is a [multi-tiered](#), advanced network-services fabric serving the majority of research and education institutions in the state. The CalREN backbone includes roughly 8,000 miles of CENIC-owned and managed fiber, as well as last-mile fiber and hundreds of optical components. The [CENIC member community](#) consists of research and education institutions in a variety of segments whose missions serve Californians of all ages and in all life situations.

Our [Interactive Community Site Map](#) provides you with a clear idea of CalREN's reach into the most populous and economically powerful US state and how it empowers your segment and institution to fulfill its mission. Behind the many nodes on the map are thousands more institutions that connect to CalREN.

In addition, you'll learn about other benefits of CENIC membership, including the bespoke

networking solutions and economies of scale that come with being part of the largest R&E community in the US devoted to digital equity and network-enabled collaboration. **VIEW THE MAP >**

Pacific Wave Supports Big-Data Demos at Supercomputing 2024 Conference

This year at the Supercomputing 2024 (SC24) conference, Pacific Wave infrastructure supported numerous Network Research Exhibitions (NREs) showcasing methods to improve and accelerate international scientific discovery, collaboration, and analysis.

The NREs at the annual Supercomputing conference seek to address these challenges so that scientific discovery continues and researchers are empowered by the data bounty they have created rather than being overcome by it. **LEARN MORE >**

Register Today for the Sixth National Research Platform Workshop: Jan 28-30, 2025 - San Diego, CA

Join your colleagues at the 6NRP Workshop from January 28-30, 2025. The main conference program on Wednesday and Thursday, January 29th & 30th will include sessions on CENIC AIR; AI Education on NRP; NRP as an accelerant for widespread exploration of future technologies; science on NRP; and others.

The 6NRP Workshop will bring together more than 100 representatives from NRP partners, and many other institutions, who support domain scientists, network and system administrators, and campus CIOs. Topics will cover both the current state of NRP as well as its future direction and long-term viability and success.

Several tutorials will be offered on Tuesday, January 28th that will help attendees learn how to access and make the most of NRP's distributed campus-owned compute cloud and allied resources for research and coursework.

Discounted early-bird registration ends on January 6th, so be sure to register before the holidays! **REGISTER TODAY >**

COMMUNITY NEWS

- **Want help transferring to UC? A new website streamlines the information you need**

- **Dept of Homeland Security Know2Protect Campaign Targets K–12 Educators**

- **CSU Board of Trustees Approves Integration of Cal Maritime and Cal Poly at San Luis Obispo**

- **UC leads the nation in highly influential scientists and researchers**

- **California Community College Districts Eager for CENIC Circuits and Services**

- **California on track to surpass 3,000 miles of broadband construction**

- **Tribes finding practical uses for AI: accounting, analytics, and grant writing**

EVENTS & PROGRAM OPPORTUNITIES

- **Women in IT Networking at SC Accepting Applications for 2025**

- **PTC'25: Jan 19-22, 2025, Honolulu, HI**

- **6NRP: Jan 28-30, 2025, San Diego, CA**

- **C2TAG Quarterly Member Meeting: Jan 30th, Stanford University/Hybrid**

- **2025 Quilt Winter Member Meeting: Feb 3-6, 2025, Tempe, AZ**

- **CISOA Tech Summit: Mar 3-6, 2025, Burlingame, CA**

- **Community College Innovations: Mar 9-12, 2025, San Antonio, TX**

- **OFC50: Mar 30-Apr 3, 2025, San Francisco, CA**

- **2025 Internet2 CommEX25: Apr 25-May 1, 2025, Anaheim, CA**

About CENIC | www.cenic.org

CENIC connects California to the world — advancing education and research statewide by providing the world-class network essential for innovation, collaboration, and economic growth. This nonprofit organization operates the California Research and Education Network (CalREN), a high-capacity network designed to meet the unique requirements of over 20 million users, including the vast majority of K-20 students together with educators, researchers, and others at vital public-serving institutions. CENIC's Charter Associates are part of the world's largest education system; they include the California K-12 system, California Community Colleges, the California State University system, California's Public Libraries, the University of California system, Stanford, Caltech, USC, and the Naval Postgraduate School. CENIC also provides connectivity to leading-edge institutions and industry research organizations around the world, serving the public as a catalyst for a vibrant California.