

CTEMPs DAS-DTS Reno–Tahoe Workshop 2026

Hands-On Training in Fiber-Optic Distributed Acoustic & Temperature Sensing (DAS & DTS)



 **August 10–14, 2026**

 **Reno, Nevada (University of Nevada, Reno)**





 **Field Day in Lake Tahoe – Wednesday, August 12**

Overview

The Center for Transformative Environmental Monitoring Programs (CTEMP) invites graduate students, postdoctoral researchers, faculty, and professionals to participate in a five-day immersive, hands-on workshop focused on Distributed Acoustic Sensing (DAS) and Distributed Temperature Sensing (DTS) for environmental monitoring.

The Reno–Tahoe region provides a unique natural laboratory for environmental sensing applications.

What You Will Learn

-  Experimental design for fiber-optic sensing
-  Installation and calibration of DAS & DTS systems
-  Real-time data acquisition and troubleshooting
-  Seismic, hydrological, and thermal signal interpretation

- ✓ Data processing workflows in Python / MATLAB
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Program Highlights

- ◆ **Monday (Aug 10 - start 9 AM):** Introduction to Fiber-Optic Sensing & System Overview
 - ◆ **Tuesday:** Field Deployment & Data Acquisition (Reno)
 - ◆ **Wednesday:** Field Applications in **Lake Tahoe**
 - ◆ **Thursday:** Full-Day Hands-On Experiments & Data Analysis
 - ◆ **Friday (Aug 14 end 2 PM):** Participant Presentations & Wrap-Up
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Instructors

- **Eileen Martin** – Colorado School of Mines
 - **Adrian Harpold** – University of Nevada, Reno
 - **Mark Hausner** – Desert Research Institute
 - **Chris Kratt** – University of Nevada, Reno
 - **Sara Sayyadi** – University of Nevada, Reno
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Who Should Attend?

- ✓ Graduate students and postdocs
 - ✓ Faculty incorporating fiber-optic sensing in research
 - ✓ Scientists in geophysics, hydrology, civil engineering, and environmental sciences
 - ✓ Researchers interested in seismic hazard, groundwater monitoring, and near-surface processes
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Registration Information

Registration Fee: \$350

Student Registration Fee: \$175

Registration Deadline: May 1, 2026


 **Registration Link:** [CTEMPs Summer Workshop Registration](#)


 **Limited seats available – Participants will be selected.**


The payment link will be provided after participants are selected.

What to Bring

 Laptop (Python or MATLAB recommended)

 Field boots & outdoor clothing

 Sun protection

 Notebook and enthusiasm

Organized by

CTEMPs – Center for Transformative Environmental Monitoring Programs

Contact

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