



CENTER FOR TEACHING, LEARNING & OUTREACH

The CTLO frequently works with graduate students on: **TA training; professional development for inclusive, equity-minded, evidence-based teaching; and educational outreach / community-based learning** that connects Caltech students and researchers with pre-college students and community members in Pasadena and the greater Los Angeles region.

Teaching-related Professional Development

- CPET Programs and Certificates
The Caltech Project for Effective Teaching is a group of graduate students and postdocs dedicated to improving our own teaching skills and helping others to do the same. CPET offers a Certificate of Interest in University Teaching and a Certificate of Practice in University Teaching.
- Quarter-long Course on STEM Pedagogy
E110, Principles of university Teaching and Learning in STEM, is offered by CTLO typically twice per year. This course can be taken on its own or as part of the Certificate of Practice mentioned above.
- CIRTL Network seminars and Courses
CIRTL is a multi-university network offering online courses, workshops, and events for graduate students and others. Sign up with for multi-institutional classes and workshops at <https://cirtl.net/>.
- Seminars and Events
Past topics include: Assessment Methods that Promote Student Learning, 'A Taste of Teaching' Thursdays: Creating and Inclusive Classroom, Syllabus Design, Creating Engaging Lectures, Flipped Classrooms. Sign up for these and more at <http://ctlo.caltech.edu>.
- Teaching Statement Workshops and Resources
Typically offered in the spring and in the fall. Find in the Institute Calendar and at <http://ctlo.caltech.edu>; additional resources under University Teaching → Resources.

Educational Components of Grant Proposals

- CTLO consults with graduate students and other researchers on "Broader Impacts" and educational components of research proposals, including educational outreach and other forms of teaching. Contact aiken@caltech.edu for more information.

Educational Outreach and Community-based Learning

Partner with CTLO to strengthen your mentoring and teaching skills through educational outreach and community-based learning. Join the Outreach Opportunities email list for opportunities such as:

- Summer Research Connection – mentoring high school students and pre-college teachers in research
- Visiting Scientists – a long-term partnership with an elementary school, in which Caltech grad students and postdocs collaborate with teachers on engaging science lessons
- Science Nights and other community events: create and lead demonstrations and discussions with families



Web ctlo.caltech.edu | Email ctlo@caltech.edu | Social Media: [@CaltechCTLO](https://twitter.com/CaltechCTLO)