

Interested in a career in **academia** or working with K-12 students in **educational outreach**?

[CTLO.CALTECH.EDU](https://ctlo.caltech.edu)



CTLO

Center for Teaching, Learning, & Outreach

Teaching & Learning

- Future Faculty Preparation
- Pedagogy Courses

Outreach

- Grant writing
- K-12 & Community Education

**Student
Services
Bldg,
3rd Floor,
414 S.
Holliston**

POSTDOCS

FALL 2025 - SHORT COURSE FOR POSTDOCS

ENROLL:
[TINYURL.COM/TYRIT-FALL-2025](https://tinyurl.com/tyrit-fall-2025)

TYRIT: TRANSFORMING
YOUR RESEARCH
INTO TEACHING



This course focuses on developing **course design skills**, culminating in a finalized **syllabus** and a one-slide overview of the participants' designed course. Attendees will acquire tools for **faculty applications** and enhance their ability to communicate their research highlights. A Canvas site will serve as a resource hub, support weekly submissions, and provide valuable feedback.

All sessions will be held
10am-12pm in the CTLO
Workshop Space
**CSS bldg, 3rd floor, Room
360**
414 S. Holliston

Mon. 10/27	Creating Student Learning Outcomes
Tue. 10/28	Designing Aligned Assessment & Practice
Wed. 10/29	Crafting Effective & Engaging Lectures
Thu. 10/30	Developing a Syllabus & Course Schedule
Fri. 10/31	'From Postdoc to Prof' - Culminating Course Talks

Attendance is required for every session of this short course, as each builds upon the previous one.

Completing all sessions of TYRIT and all sessions of 'HOW LEARNING WORKS' fulfill the "Pedagogy" requirement for the CTLO Postdoc 5P Program.

Interested?
Email ctlo@caltech.edu

POSTDOCS

5P CERTIFICATE PROGRAM FOR POSTDOCS

The **Postdoc Pre-Faculty Pedagogy Preparation Program (5P)** aims to **equip you for the teaching responsibilities you'll encounter as a future faculty** member at any institution. You will gain valuable experience to enhance your CV and teaching portfolio when applying for faculty roles.

The program has 5 key components:

Pedagogy:

Introduction to STEM university teaching through coursework on foundational principles and strategies.

Pedagogy Completion Options:

1. E110: Principles of University Teaching and Learning in STEM
- OR**
2. "Transforming Your Research Into Teaching" (TYRIT)

Practice:

Lead a guest lecture/workshop using what you learned in "Pedagogy", under the observation of a CTLO staff member.

Project:

Incorporate what you learned in "Pedagogy" into an independent project -- Create an annotated full course syllabus **OR** design and lead a workshop on a topic of your choice.

Professional Planning:

Prepare for your career search by attending workshops/panels on topics such as teaching careers or writing teaching statements.

Portfolio:

Create a teaching portfolio to showcase who you are as an instructor.

Please contact the CTLO (ctlo@caltech.edu) for enrollment information.

Outreach
activities help you
develop skills
essential for future
faculty roles by
allowing you to
engage in
teaching, science
communication,
and **mentorship**
activities.



Formal: Classroom-Based Outreach

Visiting Scientist: Teach engaging science lessons bi-weekly to students at a local elementary school

Classroom Presentations: Be a guest in a classroom or after-school club discussing current research and cutting-edge science



Informal: Community-Based Outreach

Science Nights: Host engaging demonstrations or lab tours at science night events sponsored by local schools and community groups

Caltech Experiences: Bring local school groups to campus for lab tours and STEM activities



Research and Mentorship

Sustainable Energy Activity Lab (SEAL): Mentor high school clubs in academic year research projects related to sustainable energy

Summer Research Connections (SRC): Oversee high school student summer research projects



Individual Consultations

Independent Projects: We can assist with the design and execution of your own outreach ideas!

Grant Writing: We help you develop strong educational outreach components for grant proposals with a broader impacts or outreach requirement

CTLO Outreach Opportunity Alerts



<http://eepurl.com/daAaeP>

Outreach Opportunity
Alerts is a monthly
newsletter that outlines
upcoming educational
outreach opportunities and
needs at Caltech and in the
community

