

PROFESSIONAL DEVELOPMENT WORKSHOPS

Aligned with NGSS Disciplinary Core Ideas & Scientific and Engineering Practices



TEACHER RESEARCH INTERNSHIPS

Mentored research opportunities within LLNL research laboratories. Interns receive a \$5000 stipend at completion of the 8-week internship. Applications are competitive.

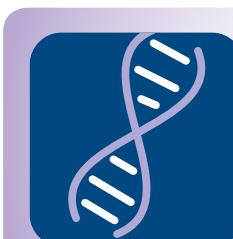
June 8 – Jul 31



TECHNICAL WRITING

Prepares teachers to build students' technical-writing skills toward CCSS goals to improve lab instruction, technical literacy, lab notebooks, abstracts, and science posters.

June 15 – 16



BIOSCIENCE

Emphasizes overview of the field with instruction on basic skills to include DNA and protein analysis through inquiry and experimentation.

June 8-12



MODELING FOR SCIENCE & MATH

Introduces concepts of computer modeling and simulation using programming with NetLogo to apply towards STEM curriculum using real-world applications.

June 15 – 19



FUSION/ASTROPHYSICS

Focuses on properties of electromagnetic radiation, spectroscopy, gravitation, and nuclear physics using tools employed in research laboratories through hands-on activities.

Workshop 1: June 17-19

Workshop 2: June 22-26



3D PRINT & DESIGN

Incorporates modeling, design, and three-dimensional printing for introduction to curriculum, print everyday objects from computational models using Tinkercad.

Workshop 1: July 8 – 10

Workshop 2: July 13 – 17



REGISTER ONLINE: EDUCATION.LLNL.GOV

REGISTRATION OPENS: FEBRUARY 2020

Sponsored by the University Relations and Science Education Program

Edward Teller Education Center (B6675) | Off Greenville Rd at East Gate Drive

Lawrence Livermore National Laboratory | Livermore, CA 94550

SUMMER PROGRAM 2020

The Teacher Research Academy (TRA) offers middle school, high school, and community college faculty unique professional development experiences at Lawrence Livermore National Laboratory (LLNL).

TEACHER OUTCOMES:

- Gain increased understanding of science, technology, engineering, and math aligned with NGSS requirements
- Understand science in a real world context
- Improve ability to guide student research

ACTIVITIES:

- Meet LLNL scientists
- Visit research laboratories
- Learn how to apply Common Core technical communication skills
- Use cutting edge science equipment, processes, and practices found in research laboratories

INTERNSHIPS:

- Paid internships
- 8 week program, June–August
- Placement in any workshop area

Graduate course credit available—CSU East Bay

Continuing education credit available—CSU Chico

You must be a U.S. citizen to attend

\$25 fee/workshop, payment due **2 weeks** prior

TIME: 8:30 am – 3:30 pm daily

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