

NSF

MICROCHIP FABRICATION RESEARCH EXPERIENCE FOR

The NSF Research Experience for Teachers (RET) is a year-long program for Stillwater and neighboring area high school and community college teachers (Grades 9-14). This RET includes a 6-week summer internship on semiconductors and microchip fabrication at Oklahoma State University. Participants must also translate their research experience into new curriculum modules.

INTERNSHIP BENEFITS:

- \$11,000 stipend (Does not apply to OSU employees)
- Up to \$2,000 of additional awards upon meeting program criteria
- 6-week internship in a microchip fabrication cleanroom laboratory to learn about semiconductors and microchip fabrication fundamentals
- Support in developing inquiry-based pedagogy and lesson plans
- Network with fellow STEM teachers

ELIGIBILITY

- Current STEM teachers in high school or community college
- No prior knowledge of microchip fabrication is required

INTERNSHIP STRUCTURE

- Research under OSU faculty and graduate student mentors
- Individual and group meetings to discuss research experience
- Submit your lesson plan to TeachEngineering.org

APPLICATION LINK

<https://etap.nsf.gov/award/8399/opportunity/11723>



COLLEGE OF
ENGINEERING, ARCHITECTURE
AND TECHNOLOGY



2026

PROGRAM DATES

June 26 - August 5, 2026

Hours: 9:00am - 4:00pm

Hybrid Format: In-person + Zoom

SUMMER LOCATION

Oklahoma State University
226 Engineering South,
Stillwater, OK 74078

HOW TO APPLY

Visit our Website at
ceat.okstate.edu/stem/ret

To learn more about the ChipFab
RET internship and apply!



QUESTIONS? CONTACT

John Hu, Assistant Professor
john.hu@okstate.edu

Weili Zhang, Regents Professor
weili.zhang@okstate.edu

Electrical & Computer
Engineering
Oklahoma State University