

TEXAS A&M UNIVERSITY SUMMER PROFESSIONAL DEVELOPMENT FOR K-12 TEACHERS

COLLEGE OF ENGINEERING

Teacher Summer Research Program - <http://engineering.tamu.edu/programs/e3.html>

The Texas A&M University College of Engineering and the **Texas A&M Engineering Experiment Station** offer a two-and-a-half week summer residential engineering research experience for Texas secondary mathematics, science and career & technical education (CTE) teachers on the Texas A&M University campus in College Station, Texas.

DATES: July 11 – July 27, 2018

Maker U - <http://engineering.tamu.edu/easa/areas/outreach/makeru.html>

Texas A&M University's PK-12 Engineering Education Outreach office introduces Maker U—an interactive and innovative approach to professional development! Join us for hands-on lessons, activities, and projects custom tailored to transform a certified PK-12 teacher into a confident and prepared makerspace educator. Whether you're new to the makerspace arena, thinking about creating your own innovative space, or are on the hunt for fresh new ideas—Maker U will help you achieve your goals.

Maker U is divided into multiple workshops in order to meet your specific campus needs. Please see the program details on the website for additional information on individual workshops.

DATES:

Maker Facilities: June 11 – June 13, 2018 (\$150)

Make it Print: June 14, June 16, 2018 ((\$150)

Make it Live: July 30 _ August 3, 2018 (\$250)

SECURE – A Research Experience for Teachers - <http://engineering.tamu.edu/easa/areas/outreach/secure-a-research-experience-for-teachers.html>

The Secure teacher Education on Cybersecurity by Utilizing Research Experiences (**SECURE**) is a six-week research experience for Brazos Valley high school teachers and community college faculty. This RET program provides an opportunity for the teachers and faculty to gain new knowledge and insights about engineering research in the area of cybersecurity. Participants will have the necessary tools and research to build new classroom curriculum related to cybersecurity at their respect institutions.

Dates: July 18 – July 27, 2018

Application Deadline is March 1, 2018

GenCyber Camp - <https://cybersecurity.tamu.edu/camp/>

This program is designed to instruct teachers in cybersecurity in support of the GenCyber principles and Texas Essential Knowledge and Skills (TEKS). The camp is designed to introduce, develop, and reinforce skill-sets of computer science and information technology in Kindergarten to Grade 12 teachers, specifically in cybersecurity topics. This includes the GenCyber teacher program overview concepts. All Texas Teachers are encouraged to attend to learn how to incorporate Cybersecurity into their curriculum!

THERE IS CURRENTLY A WAITLIST

DATES: Session 1: June 19 – June 23, 2018

Session 2: August 7 – August 11, 2018

Connected STEM: Promoting STEM Education through Connected Devices (Internet of Things) -

<https://iot.tamu.edu/7-12-teachers/>

As part of the Connected STEM project, the Texas A&M College of Engineering is hosting a two-week summer institute for educators who teach grades 7-12. During the summer institute selected teachers will learn about the product development process, design and manufacturing of components using additive manufacturing technologies, and the development and programming of connected electronic devices. Participating teachers will spend two weeks (July 23 – August 3, 2018) on the Texas A&M campus and receive targeted, one-on-one instruction from Texas A&M faculty and industry mentors. Any STEM teacher who teaches grades 7-12 may apply to participate. Teams of teachers from the same campus are encouraged to apply and will be given preference during the participant selection process.

DATES: July 23, 2018 – August 3, 2018

COLLEGE OF EDUCATION

Aggie Stem

Aggie Teacher Boot Camp 2018 - <http://aggiestem.tamu.edu/bootcamp/>

Aggie STEM will be hosting this summer an engineering-design driven STEM Teacher Boot Camp where teacher teams observe research-based effective practices in the mornings and participate in afternoon workshops to develop their content and pedagogical skills. In the morning, the teachers will shadow professors during our week-long middle- and high-school science, technology, engineering, and mathematics (STEM) summer camp. During the afternoon workshops, teachers will visit active research labs, have opportunities to interact with these cutting-edge researchers, reflect on the pedagogies used during the morning, and develop their own STEM Project-based Learning (PBL)s. The learning gained by this experience will be maintained by an online support system in the Fall semester.

All meals, housing, and transportation is included in the cost.

DATES: June 17 – June 23, 2018

COST: \$750

DATES: JULY 8- JULY 21, 2018

COST: 1,500

COLLEGE OF GEOSCIENCES

G-Camp - <https://geoweb.tamu.edu/academics/camps-and-outreach/g-camp/>

G-Camp is a 18-day field camp for 5th - 12th grade science teachers that provides first-hand experience with the principles of geology in the field, helps you develop new curriculum and virtual fieldtrips for your classroom, and makes learning fun and exciting out-of-doors. This field experience puts you on the outcrop, on the slope of a volcano, on the footwall of a fault, in a spectacular glacial valley, at the toe of a landslide, and in a pristine flowing stream - to mention just a few of the experiences of G-Camp. Our itinerary takes us through Texas, New Mexico, and Colorado.

COST: Travel to and from College Station.

DATES: June 26 – July 13, 2018

Applications are Due by March 16, 2018

COLLEGE OF SCIENCE

Advanced Placement Institutes -

AP Biology, Chemistry and Physics visit <http://ap.science.tamu.edu/> for more information on dates and costs.

AP Computer Science, Calculus AB and BC visit <http://www.math.tamu.edu/conferences/apcalc/> for more information on dates and costs.

Department of Physics

Mitchell Institute Physics Enhancement Program (MIPEP) - <http://mitchell.tamu.edu/outreach/physics-enhancement-program/>

Taught by Texas A&M physics and astronomy faculty and master high school physics teachers, the MIPEP curriculum focuses on clarifying fundamental physics concepts through problem-solving, hands-on demonstrations, and laboratory experiences. Content and materials are centered around the Physics TEKS. MIPEP classes and lab experiences are held on the Texas A&M campus. Participants receive Continuing Professional Education and Gifted/Talented credits, travel reimbursements (mileage), along with a daily meal allowance and lodging provided.

Contact Paula Hiltibidal at paula.hiltibidal@esc15.net for more information

TEXAS A&M HEALTH SCIENCE CENTER

Environmental Health Science 17th Annual Summer Institute for K-12 Educators -
<http://www.k12summerinstitute.org/index.php>

The Environmental Health Science Summer Institute (SI) is an annual, 4-5 day professional development conference where Texas teachers are introduced to and trained to implement innovative, classroom-ready, STEM-based educational materials. Elementary, middle and high school workshops are offered each day, so teachers are encouraged to attend all 4 days, although this is not required. Each workshop provides free integrated curricular materials and hands-on learning activities. The SI is accredited by the State of Texas to provide continuing education (CPE) and gifted/talented (GT) credits (7 hours per workshop). A Travel Grant program is available to defray the costs of lodging for those who meet the eligibility criteria.

COST: Partial funding is available. Please see website for costs.

DATES: July 23 – July 26, 2018

Location – Kerrville, TX

TEXAS A&M UNIVERSITY AT GALVESTON

Internships for Educators - <http://www.tamug.edu/seacamp/Internships/>

Texas A&M University Galveston Campus sponsors free summer internships for school teachers, counselors, administrators, and other individuals involved in education. Internships are operated in conjunction with Sea Camp and Talented & Gifted (TAG). Each internship is a week-long adventure and learning experience. No teaching is involved. Interns are asked to learn along with the campers while acting as chaperones. Sea Camp is a summer residential camp for students of ages 10-18 interested in the marine biology/science. Internship participants live with Sea Camp staff and students in our campus dormitory; assist in daily educational exercises and field trips, evening recreation, and overall well-being of the campers. Interns may apply for a maximum of 2 sessions per summer. More than 2 sessions require previous Sea Camp counselor experience and approval from the Sea Camp Director.

See website for more details.