EDUCATIONAL OUTREACH [1]

The UH Cullen College of Engineering has developed many educational outreach efforts throughout the last ten years and has earned more than $8 million in federal funding to support such initiatives.

- Girls Engineering the Future: A STEM Event Sponsored by Chevron

The annual “Girls Engineering the Future” event at the University of Houston introduces Houston-area girls in grades 4-8 to the wide and wonderful world of engineering through fun, hands-on activities led by award-winning Cullen College professors and students. Girls participating in the event will learn about the different engineering fields and professions and engage with current and former industry leaders.

Website: [https://www.egr.uh.edu/girls-engineering-the-future](https://www.egr.uh.edu/girls-engineering-the-future)

Address:
Engineering Bldg 1
Houston, TX 77204

- GK-12

GK-12 provides STEM graduate students the opportunity to engage in state-of-the-art nanotechnology related research and to learn the articulation of complex scientific and engineering issues in a K-12 classroom environment through direct immersive interaction with K-12 students and teachers. The program's interactive modules uses the science behind Harry Potter to teach the fundamentals of the physical sciences.

Website: [http://gk12.egr.uh.edu](http://gk12.egr.uh.edu)
• **GRADE Camp**

  G.R.A.D.E. CAMP is a week-long day program designed specifically for entering 8th to 12th grade girls who want to find out what engineering is all about through "hands-on" experience. G.R.A.D.E. CAMP emphasizes career exposure rather than career choice, so you can come just to experience something new.

  **Website:** [http://www.egr.uh.edu/grade](http://www.egr.uh.edu/grade)
  **Email:** grade2017 [at] egr [dot] uh [dot] edu
  **Address:**
  E316A Engineering Building 2
  Houston, TX 77204-4005

• **PROMES**

  The Program for Mastery in Engineering Studies (PROMES) was established at the University of Houston in 1974 to provide a positive learning environment that supports the needs of underrepresented groups (women and minorities) and first-generation-in-college students in engineering. PROMES builds a diverse "community of scholars" within the Cullen College of Engineering: PROMES students learn together, study together, socialize together, and encourage each other to be leaders here at UH.

  **Website:** [http://promes.egr.uh.edu/](http://promes.egr.uh.edu/)
  **Email:** promes [at] egr [dot] uh [dot] edu
  **Address:**
  E316 Engineering Bldg 2
  Houston, TX 77204-4010
  **Phone:** 713-743-4222

• **RET**

  RET is designed to provide teachers with the opportunity to conduct a research project under the guidance of a faculty mentor, and develop teaching modules related to engineering to take back to their
classrooms. The projects cover a variety of topics, such as the diverse fields of control systems, biomedical engineering, optics, and computer programming.

**Website:** [http://www.egr.uh.edu/ret/](http://www.egr.uh.edu/ret/)
**Email:** ret [at]egr [dot] uh [dot] edu
**Address:**
N310 Engineering Building 1
Houston, TX 77204-4005
Fax: 713-743-4444

**REU**

The REU program, "Innovations in Nanotechnology," is designed to infuse qualified undergraduates with enthusiasm toward both graduate level education and a career in research. Participants will make important contributions to the college's ongoing research efforts.

**Website:** [http://www.egr.uh.edu/reu/](http://www.egr.uh.edu/reu/)
**Email:** reu2018 [at]egr [dot] uh [dot] edu
**Address:**
N310 Engineering Building 1
Houston, TX 77204-4005
Fax: 713-743-4444

**STEP Forward Engineering Camp**

STEP Forward Engineering Camp is a one-week residential engineering introduction program for rising 12th graders. The program is limited to fifty students. Participants stay on the University of Houston campus in a dormitory. UH engineering students serve as camp mentors and counselors.

**Website:** [http://promes.egr.uh.edu/outreach](http://promes.egr.uh.edu/outreach)
**Email:** promes [at]egr [dot] uh [dot] edu
**Address:**
E316 Engineering Bldg 2
Houston, TX 77204-4010
Phone: 713-743-4222

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**Links:**
[1] [https://www.egr.uh.edu/outreach](https://www.egr.uh.edu/outreach)