

STEM Engineering Math Summer 2017 Programs at Penn

For School District of Philadelphia middle and high school students

The University of Pennsylvania is looking for talented and motivated Philadelphia public school students to attend STEM programs this summer. Scholarships are available based on need in most cases. Please use the information assembled in this flyer to encourage potential participants to apply, and use websites mentioned for details on individual opportunities.

Find us online



- www.sas.upenn.edu/STEMoutreach
- **™ STEMoutreach**@sas.upenn.edu
- @PennSASSOI

Our Programs

DATES
June 26 – August 4
APPLICATION DEADLINE
April 12
GRADE LEVEL ELIGIBILITY
10th – 11th

DATES
July 2 – July 22
APPLICATION DEADLINE
April 24

GRADE LEVEL ELIGIBILITY

9th — 11th

DATES

Academies Session: July 2 – 22, Prep Session A: July 10 – 22, Prep Session B: July 24 – August 5 APPLICATION DEADLINE May 15 GRADE LEVEL ELIGIBILITY

9th – 11th

July 5 – August 25 APPLICATION DEADLINE March 31 GRADE LEVEL ELIGIBILITY 10th – 11th

DATES
July 5 – August 4
APPLICATION DEADLINE
April 10
GRADE LEVEL ELIGIBILITY
10th

DATES
July 5 – August 11
APPLICATION DEADLINE
March 31
GRADE LEVEL ELIGIBILITY
10th – 11th

DATES
July 10 – August 4
APPLICATION DEADLINE
April 15
GRADE LEVEL ELIGIBILITY
10th – 11th

DATES
Session 1: July 10 – July 14
Session 2: July 17 – July 21
APPLICATION DEADLINE
June 1
GRADE LEVEL ELIGIBILITY
6th – 8th

DATES
July 24 – July 28
APPLICATION DEADLINE
March 31
GRADE LEVEL ELIGIBILITY
6th – 8th

*Grade Level Eligibility refers to grade level completed.



Science Outreach Initiative

QuarkNet High Energy Physics Experimental Group

School of Arts and Sciences

Students will learn how laboratory experiments are designed and how scientists try to answer big questions, such as "What are the origins of mass?" and "How did the universe begin and evolve?"

www.hep.upenn.edu/HEP_website_09/QuarkNet/Overview.html

Engineering Summer Academy at Penn (ESAP)

School of Engineering and Applied Science

Combining sophisticated theory with hands-on pratical experience in cutting-edge technologies, the ESAP offers 6 different courses – Biotechnology, Computer Graphics, Computer Science, Engineering Complex Networks, Nanotechnology, and Robotics. esap.seas.upenn.edu/apply/

Penn Summer Academies (PSSA) and Penn Summer Prep (PSP)

School of Arts and Sciences

The 5 PSSA programs – Biomedical, Chemistry, Experimental Physics, Mathematics and Neuroscience are rigorous, subject intensive programs fusing traditional classroom instruction with experiential learning. Two PSP sessions offer college-level academics within an exploratory, non-credit environment. Students enroll in two immersive modules from across disciplines.

www.sas.upenn.edu/summer/programs/high-school/application

IRM Summer Research Experience

Institute for Regenerative Medicine

Designed to provide high school students with an interest in stem cell biology and/or regenerative medicine an opportunity to work at the bench alongside Penn faculty and other researchers.

irm.med.upenn.edu/science-impacting-the-clinic/education-outreach/

Summer Mentorship Program (SMP)

Division of the Vice President for University Life

Students in the SMP partner with Penn's professional schools of Dental, Medicine, Nursing, Engineering, and the Perelman School of Medicine to gain first-hand experience in STEM disciplines and explore a variety of academic and career opportunities. www.vpul.upenn.edu/eap/smp/

Penn Laboratory Experience in Natural Sciences

School of Arts and Sciences

Gain firsthand experience working in a university science laboratory. Carry out daily assigned tasks essential to research efforts and learn important skills that involve both lab procedures and computer-based data collection and analysis. www.sas.upenn.edu/STEMoutreach/

Penn Summer Science Initiative

Laboratory for Research on the Structure of Matter

Students with a strong interest in materials science and engineering attend lectures, participate in experiments, use a computer lab, and go on field trips to Penn facilities as well as industrial sites.

www.lrsm.upenn.edu/outreach/pssi/

Canine Handler Academy

Penn Vet Working Dog Center

Gain hands-on training experience and enjoy various working dog demonstrations. Introduction to detection dogs and their many different jobs. Learn search, obedience, and fitness techniques while discovering the benefits of positive reinforcement practices. www.vet.upenn.edu/research/centers-initiatives/penn-vet-working-dog-center/learn-about-working-dogs/canine-handler-academy

Girls in Engineering Math and Science Camp (GEMS)

School of Engineering and Applied Science

During a week of hands-on science, math and engineering activites, girls in GEMS explore topics including bioengineering, nanotechnology, materials science, mechanical engineering, graphics, and computing.

www.seas.upenn.edu/awe/gems/