

STEM Summer Research Programs

[U Tulsa Engineering Program](#)

[MIT Summer Recommendations](#) *See MITES program

[Garcia MRSEC](#)

[Clark Scholars Program](#)

[Ross Mathematics Program](#)

[Iowa Secondary Student Training Program](#)

[Stanford University Math Camp](#) (not research)

[Summer Science Program](#)

[Hampshire College Summer Studies in Mathematics](#) (*former Casady student did this program)

[Pioneer Academics](#)

[Stony Brook Garcia Center at Engineered Interfaces](#)

[Polygence](#)

STEM Summer Courses

Maryland and D.C.:

- [Engineering Innovation](#): Johns Hopkins and Loyola Universities
- [Discover Engineering & ESTEEM/SER-Quest Summer Programs](#): University of Maryland
- [Summer Enrichment Experience in Cybersecurity and Mechanical Engineering](#): UMBC
- [The Science and Engineering Apprentice Program \(SEAP\)](#): Army Education Outreach Program at Aberdeen Proving Ground
- [Engineering New Frontiers](#): Catholic University
- [STEM Pre-College Programs](#): George Washington University
- [Summer Science Academy](#): McDaniel College
- [Johns Hopkins Center for Talented Youth \(CTY\) online courses](#)
- [Johns Hopkins Center for Talented Youth \(CTY\) on-campus courses](#): Residential and commuting options at JHU and other college campuses across the country

Pennsylvania:

- [Drexel University Summer Institutes](#): Engineering and Biomedical Engineering
- [Summer Academy in Applied Science and Technology](#): University of Pennsylvania

New York

- [Summer @ Rensselaer](#): RPI
- [HAJIM Engineering Pre-College Program](#): University of Rochester
- [Pre-College Courses in Engineering, Plant Biology, Physics, etc.](#): Cornell University
- [Summer College Courses in Aerospace Engineering, Architecture, Applied Data Science, Biomedical Engineering, etc.](#): Syracuse University

Delaware

- [Introduction to Engineering Product Design](#): University of Delaware

National:

- [Summer Study](#): Tufts University

- [The National High School Game Academy \(NHSGA\)](#): Carnegie Mellon University
- [Summer Academy for Math & Science, AI4All, Computer Science Scholars](#): Carnegie Mellon University (*Note: for “students who have been historically underrepresented in the STEM and Computer Science fields”)
- [Pre-College Programs](#): Washington University in St. Louis
- [Pre-College Programs](#): Brown University
- [Bridge Program in Biomedical Science](#): Sewanee
- [Operation Catapult](#): Rose Hulman Institute of Technology
- [Project Select](#): Rose Hulman Institute of Technology (“An immersive, hands-on science and engineering camp for high school students during the summers after their freshman or sophomore years.”)
- [Creation Crates](#): Rose Hulman Institute of Technology (Virtual: “experimental engineering design-at-home program for high school students who have completed their sophomore or junior years.”)
- [MIT Online Science, Technology, and Engineering Community \(MOSTEC\)](#): MIT
- [Pre-College Courses in Biology](#): Colorado College
- [The Joy of Coding](#): University of Michigan
- [AIM: Introduction to Medicine](#): Boston University
- [Summer Session](#): Harvey Mudd College (in-person and virtual options for 2022)

Lab Science Internships

Maryland and D.C.:

- [APL’s ASPIRE](#): Johns Hopkins University
- [Chesapeake Bay Foundation](#): Student Wave (Education and Volunteer Opportunities)
- [Discover Genomics Internship Program](#): J. Craig Venter Institute (Rockville, MD)
- [National Cancer Institute](#): Internship Programs (Frederick, MD)
- [National Heart, Lung, and Blood Institute](#): Summer Internship in Biomedical Research (Bethesda, MD)
- [National Human Genome Research Institute](#): Summer Internships (Bethesda, MD)
- [National Institute of Arthritis and Musculoskeletal Diseases](#): Summer Internship Program (Bethesda, MD)
- [Short-Term Research Experience for Underrepresented Persons \(STEP-UP\)](#): National Institute of Diabetes and Digestive and Kidney Diseases (Bethesda, MD)
- [National Institute of Standards and Technology](#): High School Summer Intern Program (Gaithersburg, MD) - “Students selected for this competitive volunteer program will participate in cutting-edge research at NIST, and will work closely with NIST staff scientists and engineers on a specific research problem.”
- [NASA STEM Engagement Internships](#)
- [Science and Engineering Apprenticeship Program \(SEAP\)](#) (Various labs in Baltimore) - “An opportunity for high school students to participate in research at a Department of Navy (DoN) laboratory during the summer.”

National:

- [Microsoft High School Summer Intern Program](#) (on hold for 2021)
- [Simons Summer Research Program](#), Stony Brook University
- [Research Science Institute](#), MIT
- [RISE Internship](#), Boston University