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