

# SUMMER STEM 2017

## **HIGH SCHOOL STEM INTERNSHIPS:**

### **Indiana CTSI Project Stem**

This website provides information for the Indianapolis Project STEM program. It is designed to be an information center for high school students who want to explore a career in any of the Science, Technology, Engineering, and Mathematics fields such as Medicine, Dentistry, Computer Science, Information Technology, Life Sciences, Chemistry, Bio-Medical Engineering and others. To support students and their families in identifying programs most suitable for each, they have created a directory of high school internship programs and other opportunities across Indiana and the nation. Through an interview process, students are matched with research preceptors who host and mentor them in their labs. As a training ground for future careers, it is a full time experience for the students, Monday-Friday, 8 hours a day for 8 weeks.

**Website:** <http://www.indyprojectstem.org/>

## **HIGH SCHOOL STEM CAMPS:**

### **PREFACE SUMMER WORKSHOP**

**Location:** Purdue University – West Lafayette, IN

**Dates:** June 19 – 23, 2017

**Application Deadline:** March 31, 2017

**Eligibility:** Students entering 10<sup>th</sup> – 11<sup>th</sup> grades

**Cost:** \$900 includes accommodations, meals, and activities (scholarships available)

**Website** <https://www.purdue.edu/mep/MEP%20Programs/Pre-College%20Outreach/PREFACE.html>

Participants will live on Purdue University's campus and learn more about the opportunities available at Purdue. Students will discover more about the wide variety of engineering careers and examine career choices as they relate to their own values, abilities, and goals and work with students from around the country to design solutions to some of the world's most pertinent challenges, highlighting engineering majors at Purdue. More importantly participants will leave with new academic skills to help you excel in your classes and on SAT/ACT standardized tests with an average improvement in SAT math scores of 90-100 points.

**TEAM CAMP (Technology Expanding All Minds)**

**Location:** Purdue University, West Lafayette, IN

**Dates:** June 25 - 29, 2017

**Eligibility:** Rising female students entering 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> grades

**Cost:** \$275 includes accommodations, meals, and activities.

**Website:** <https://polytechnic.purdue.edu/summer-diversity-camps/team-camp>

TEAM explores the many ways women in technology can help make a difference in the world! You will learn how technology involves creative thinking, teamwork, hard work and innovation. As you discover new uses and ideas in computer graphics, information technology, aviation, construction management, and applied engineering.

**POWER SUMMER CAMP (Preparing Outstanding Women for Engineering Roles)**

**Location:** IUPUI School of Engineering and Technology, Indianapolis, IN

**Dates:** July 12 - 18, 2017

**Eligibility:** Females entering 9<sup>th</sup> – 12<sup>th</sup> grades

**Cost:** \$250 (scholarships are available)

**Website:** <http://www.engr.iupui.edu/infofor/community/summer-camps/power-camp.php>

Explore engineering through hands-on experiences- conduct experiments, innovate, and make cool stuff! Meet a diverse selection of professional women engineers and young college women aspiring to be engineers! Checking out up-and-coming technology in engineering through innovation modules! Build relationships with other aspiring engineers!

**NEST (Nanotechnology Experiences for Students and Teachers)**

**Location:** IUPUI School of Engineering and Technology, Indianapolis, IN

**Dates:** June 19 - June 30, 2017

**Eligibility:** Students entering 9<sup>th</sup> – 12<sup>th</sup> grades and who are underrepresented in engineering and technology careers and US citizens or permanent residents

**Cost:** A \$500.00 stipend (earnings) is available to students accepted to the program who are eligible for free or reduced lunch, will be first-generation college students, are 21st Century Scholar participants, or attend a high-needs school or school district.

**Website:** [http://indi.iupui.edu/ITEST\\_Student.php](http://indi.iupui.edu/ITEST_Student.php)

This camp is a unique opportunity for high-school students to explore the interdisciplinary, cutting-edge field of nanotechnology and earn a college-credit hour in Engineering & Technology and/or Science. Gain research experience and knowledge of careers in nanotechnology, enjoy hands-on laboratory experiences in inquiry-based science led by university faculty, and connect to a professional network of teachers, professors, and scientists.

### **IU SCHOOL OF INFORMATICS AND COMPUTING SUMMER CAMP**

**Location:** Indiana University, Bloomington, IN

**Dates:** June 18 – 22, 2017

**Application Deadline:** May 1, 2017

**Eligibility:** Students entering 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grades

**Cost:** \$425 includes accommodations, meals, and activities (scholarships available)

**Website:** <https://www.soic.indiana.edu/student-life/summer-camp/>

The goal of the camp is to develop problem-solving skills using information technology. Students learn how information technology is used in science, art, and visual communications. Students will also have fun with computers and people while enjoying bowling, movies, and Xbox 360.

### **OPERATION CATAPULT**

**Location:** Rose-Hulman College, Terre Haute, IN

**Dates:** SESSION 1: June 12 – June 29, 2017

SESSION 2: July 10 – July 27, 2017

**Eligibility:** Students entering 12<sup>th</sup> grade

**Cost:** \$2,750 includes accommodations, meals, and activities

**Website:** <http://www.rose-hulman.edu/admissions-financial-aid/early-planning/operation-catapult.aspx>

The goals of this camp, beyond stimulating your brain, is to explore fundamental scientific and engineering principles and systems, have an opportunity to experience group living in a campus setting, meet students from across the country and the world, set up and run advanced experiments, and interact with dedicated professors.

### **OPTIONS for High School Girls**

**Location:** University of Evansville College of Engineering and Computer Science, Evansville, IN

**Dates:** June 18 – June 23, 2017

**Application Deadline:** April 15, 2017

**Eligibility:** Female students entering 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grades and had Geometry

**Cost:** \$500 includes accommodations, meals, and activities

**Website:** <https://www.evansville.edu/options/hsGirls.cfm>

OPTIONS teaches participants about the exciting and rewarding career opportunities available in engineering and computer science through classes taught by University of Evansville engineering and computer science professors and hands-on projects. Participants will experience life on a college campus, be mentored by professional women working in these fields, and receive UE college scholarships.

### **MIDDLE SCHOOL CAMPS**

#### **STEM Summer Camps**

**Location:** Marian University

**Dates:** June 12-16 Explore STEM: Art and Nature

June 19-23 Explore STEM: Science Discoveries Week

June 26-30 Explore STEM: Bugs Week – the Good, the Bad, and the Misunderstood!

July 10-14 Explore STEM: Chemistry, Physics, and So Much More

**Application Deadline:** May 19, 2017

**Eligibility:** Students entering K through 8<sup>th</sup> grade

**Cost:** \$240 per week

**Website:** <https://marian.edu/about-marian/nina-mason-pulliam-ecolab/summer-science-camps>

STEM Summer Camps that will be sure to bring science to you in new, different and fun ways. A different theme each day will bring new experiences and excitement as you learn about the wonders of science, technology, engineering and math.

**TOTAL (Turned On To Technology And Leadership)**

**Location:** Purdue University, West Lafayette, IN

**Dates:** June 11 - 15, 2017

**Application Deadline:** April 30, 2017

**Eligibility:** Students entering 7<sup>th</sup>, 8<sup>th</sup>, or 9<sup>th</sup> grades

**Cost:** \$275 includes accommodations, meals, and activities

**Website:** <https://polytechnic.purdue.edu/summer-diversity-camps/total-camp>

The purpose of the TOTAL summer program is to introduce students to a college environment and various career opportunities within the field of Technology. During your stay at Purdue University we hope to increase your awareness to technical career choices through hands-on experiences and encourage young learners to take the appropriate high school courses in Math, Science and English to better prepare yourself for college and the College of Technology.

**SEW (Summer Engineering Workshops)**

**Location:** Purdue University, West Lafayette, IN

**Dates:** June 11 - 16, 2017

**Application Deadline:** March 31, 2017

**Eligibility:** Students entering 7<sup>th</sup>, 8<sup>th</sup>, or 9<sup>th</sup> grades

**Cost:** \$900 includes accommodations, meals, and activities (scholarships available)

**Website:** <https://www.purdue.edu/mep/MEP%20Programs/Pre-College%20Outreach/Summer%20Engineering%20Workshops.html>

Students get exposure to engineering careers and the impact engineers have on the world. Engineering projects introduce students to different engineering disciplines and engineering design. Math abilities are assessed using an online tutorial system. Social activities help students make friends from all over the country.

### **Engineering FYI: For Your Imagination**

**Location:** Purdue University, West Lafayette, IN

**Date:** July 15, 2017

**Eligibility:** Girls entering 7<sup>th</sup>, 8<sup>th</sup>, or 9<sup>th</sup> grades

**Website:** <http://www.purdue.edu/wiep/FutureStudents/OutreachK-10/Engineering-FYI-For-Your-Imagination.html>

This is a **FREE** one-day on-campus event designed to increase interest in engineering among rising 7-9th grade students. The day features hands-on activities and interaction with current engineering students for participants and some activities for parents as well.

### **OPTIONS for Middle School Boys**

**Location:** University of Evansville College of Engineering and Computer Science, Evansville, IN

**Dates:** June 5 – June 9, 2017

**Eligibility:** Boys entering 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grades

**Cost:** \$300

**Website:** <https://www.evansville.edu/options/msBoys.cfm>

This day camp gives middle school boys the chance to explore different areas of science or engineering by taking classes and working on team projects. Areas of exploration include electrical engineering, computer engineering, mechanical engineering, civil engineering, computer science, and physics including tours of local industries.

### **OPTIONS for Middle School Girls**

**Location:** University of Evansville College of Engineering and Computer Science, Evansville, IN

**Dates:** June 11 – June 14, 2017

**Eligibility:** Girls entering 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup> grades

**Cost:** \$300

**Website:** <https://www.evansville.edu/options/msGirls.cfm>

Camp is designed to give middle school girls a better understanding of what types of opportunities are available in fields most closely related to science, technology, engineering, and mathematics (STEM) through hands-on projects and other activities. Team-building and confidence-building activities are also part of the fun.