



Indiana CTSI K-12 STEM Program

Developing the pipeline of future scientists through support for the Project SEED,¹ Project STEM² High School Summer Research Internship Programs

Indiana 2020 STEM Education Outreach Programs and Events Directory

IMPORTANT NOTE: We request your input to add new listings and update current listings. Most website links and emails are current and interested students and families should contact those programs directly.

See page 2 for program categories, sections and table of contents.

¹Project SEED is an outreach program of the American Chemical Society started in 1968 to encourage students from economically disadvantaged families to explore careers in science. The Indianapolis Project SEED was established in 1973 at the School of Medicine and continues as one of the largest and longest serving programs in the nation. Info at www.IndyProjectSEED.org

The Purdue University Project SEED program was established in 2013 and is supported by the ACS Purdue Section. Info at www.PurdueProjectSEED.org

²The Project STEM program was established to serve additional students regardless of economic background, providing opportunities for research internships in a full spectrum of STEM related disciplines. Indianapolis (IUPUI) info at www.IndyProjectSTEM.org. Indiana University Bloomington info at www.IUprojectSTEM.org

The Indiana CTSI supports the Indianapolis program through the IUPUI School of Education and the IU program through the Office of the Vice Chancellor for Research. Info at www.IndianaCTSI.org

³The Future Scientist Program (FSP) is an educational outreach program of the IU Simon Cancer Center specific to high school juniors from the Indianapolis Public Schools. Info at www.cancer.iu.edu/future



STEM Directory Table of Contents

Programs available to Indiana students in STEM related fields of Science, Technology, Engineering and Medicine.

Must see these 2 first:

Summary view of programs www.IndianaProjectSTEM.org/stem.xlsx

Preparation Chart for students in grades 8th – 12th www.IndianaProjectSTEM.org/chart.docx

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Summer Internship Programs affiliated with the Indiana CTSI Project STEM

Each program is managed separately. Please study each program's details and follow up with contact for additional info.

1. Indianapolis Project SEED, American Chemical Society

Duration: 8 weeks

Location: IU School of Medicine, IUPUI School of Science, Eli Lilly and other institutions

Service Area: Marion County and surrounding towns at reasonable driving distance to IUPUI.

Compensation: \$2500 educational award for first summer, \$3000 for second summer.

Eligibility: All students in grades 10-12, regardless of school.

Restrictions: Participation is limited to students from economically disadvantaged backgrounds. See website for exact income scale. No other restrictions.

Website: www.IndyProjectSEED.org

Contact: Elmer Sanders, Program Coordinator, elmer.sanders@yahoo.com (317) 514-3212

2. Purdue Project SEED, American Chemical Society

Duration: 8 weeks

Location: IU School of Medicine, IUPUI School of Science, Eli Lilly and other institutions

Service Area: Tippecanoe County and surrounding towns at reasonable driving distance to IUPUI

Compensation: \$2500 educational award for first summer, \$3000 for second summer.

Eligibility: All students in grades 10-12, regardless of school.

Restrictions: Participation is limited to students from economically disadvantaged backgrounds. See website for exact income scale. No other restrictions.

Website: www.PurdueProjectSEED.org

Contact: Dr. Corey Thompson, Program Coordinator, thomp483@purdue.edu (765) 496-6056

3. Indianapolis Project STEM, Indiana CTSI (Clinical and Translational Sciences Institute)

Duration: 8 weeks

Location: IU School of Medicine, IU School of Dentistry, Eli Lilly and other institutions

Service Area: Marion County and surrounding towns at reasonable driving distance to IUPUI

Compensation: \$1000-\$2500 may be awarded to students based on need and funds available, otherwise unpaid.

Eligibility: All students in grades 10-12 regardless of schools.

Restrictions: No Restrictions. Students of all backgrounds are considered.

Website: www.IndyProjectSTEM.org

Contact: Elmer Sanders, Program Coordinator, elmer.sanders@yahoo.com (317) 514-3212

4. Indiana University Project STEM, Indiana University Dep't of Brain and Psychological Sciences

Duration: 8 weeks

Location: Indiana University, Bloomington

Service Area: Monroe County and surrounding towns at reasonable driving distance to the IU campus.

Compensation: \$1000-\$2500 may be awarded to students based on need and funds available, otherwise unpaid.

Eligibility: All students in grades 10-12 regardless of schools.

Restrictions: No Restrictions. Students of all backgrounds are considered.

Website: www.IUprojectSTEM.org

Contact: Dr. Sharlene Newman, Program Coordinator, sdnewman@indiana.edu (812) 856-1776

5. Future Scientist Program, IU Simon Cancer Center

Duration: 6 weeks

Location: IU Simon Cancer Center, IU School of Medicine, IUPUI

Service Area: Indianapolis Public Schools district students only. (*Ask your guidance counselor if unsure*)

Compensation: \$2000 educational award

Eligibility: Only IPS Juniors

Restrictions: Must be currently enrolled in an IPS district high school in grade 11. No other restrictions.

Website: www.futurescientistprogram.org

Contact: Shari Harrison, retired IPS Teacher and FSP Facilitator, harrison.shari@gmail.com (317) 332-7326

Additional Summer Research Internship Programs

1. The IU Simon Cancer Center Summer Research Program, IUPUI Center for Research and Learning

Duration: 8 weeks

Location: IU Simon Cancer Center, IUPUI Campus

Compensation: \$3200

Eligibility: Grade 11 through college undergraduates. Underrepresented student in cancer research field (not limited to racial and ethnic minorities, but can also include individuals that the institution determines to be underrepresented in cancer research). U.S. citizen, non-citizen national or permanent resident

Restrictions: Grade 11 or higher (see note on Eligibility).

Website: <http://cancer.iu.edu/education/training/summer-research/index.shtml>

Contact: Vicki Bonds, MS, M.Ed. vgayfiel@iupui.edu

2. Wells Center Summer Internship Program

Duration: 10 weeks

Location: Herman B. Wells Center for Pediatric Research, Indiana University School of Medicine, IUPUI Campus

Compensation: Unpaid

Eligibility: 18 years of age and eligible to work in the US.

Website: <http://www.wellscenter.iupui.edu/education/internships>

Contact: Lynn Pressler (lpresse@iu.edu) or Laura Oxford (loxford@iu.edu)

3. IUPUI Department of Physics High School Summer Research Program

Duration: 4-6 weeks, some flexibility is available

Location: IUPUI School of Science buildings (SL, LD and SELB), IUPUI Campus

Compensation: A stipend is available for students who demonstrate financial need.

Eligibility: This program is intended for high school students. There are many research topics available beyond the traditional understanding of 'physics'.

Website: <https://physics.iupui.edu/physics/research/studentresearchopportunities>

Contact: Dr. Horia Petrache (PhD) hpetrach@iupui.edu

4. Health & Science Innovations 2017 Young Innovators Quest

Duration: 4 weeks, June 8-30, 2017

Location: IUPUI Campus, Health & Science Innovations Lab

Compensation: Unpaid

Eligibility: Students 14-17 who have completed 8th grade

Website: www.healthandscienceinnovations.org/YiQ

Contact: Luis Palacio, Executive Director contact@scienceinnovations.org (317) 703-7836

5. IUPUI Nanotechnology Discovery Academy (INDA) and (NEST) for students

Duration: 2 weeks during summer

Location: IUPUI Campus

Cost: \$500.00 *participants receive college credit

Eligibility: Grades 9-12

Website: <http://indi.iupui.edu/index.php>

and <http://www.engr.iupui.edu/infofor/community/summer-camps/nest-for-students.php>

Contact: Dr. Mangilal Agarwal (agarwal@iupui.edu)

6. IU-HCOP: The Indiana University Health Careers Opportunity Program at the IUPUI School of Health and Rehabilitational Sciences.

There are numerous programs available for both Juniors and Seniors, some in summer, others during school year.

There are funds available to those who participate.

Location: IUPUI Campus, School of Health and Rehabilitational Sciences

Website: <http://shrs.iupui.edu/about/IU-HCOP/index.html>

Contact: Shawnee Hawkins, Program Manager hawkisha@iu.edu 317-278-4707

IUPUI School of Informatics and Computing Summer Workshops

In hands-on, high-energy, one-week summer workshops, high school students learn how informatics and computing is shaping our world through innovations in mobile and web applications, interactive media and digital games, and health and medical research. Expert faculty from the IU School of Informatics and Computing at IUPUI provide fun, interactive learning experiences that build students' technology skill sets and introduce them to career options in [BioHealth Informatics](#), [Library and Information Science](#), and the [Human-Centered Computing](#) fields of Human-Computer Interaction and Media Arts and Science.

Website: <https://soic.iupui.edu/about/high-school-programs/summerworkshops/>

Phone: 317 274-7380

Location: 535 W Michigan St, Indianapolis, IN 46202

Date: 6/18-6/29

Age: Grades 9-12

Registration Information:

Costs: \$229.00 per workshop

Our courses sell out very fast—sometimes as early as March, so avoid disappointment and enroll at your earliest convenience.

Need-based scholarships are available for covering the cost of Summer Workshops. These scholarships are awarded on a first-come, first-served basis. Students will be asked to submit a 100-word essay describing how they will benefit from taking workshops, and a letter from a teacher or a guidance counselor stating financial hardship or need. Apply for a need-based scholarship at the website provided above.

Current high school juniors graduating high school in 2019 who attend a workshop are eligible for a \$500 college scholarship upon admittance to the [Informatics B.S. program](#) or the [Media Arts and Science B.S. program](#) at the IU School of Informatics and Computing at IUPUI.

Angela Madden

Associate Director of Undergraduate Recruitment

Indiana University

School of Informatics and Computing – Indianapolis

Informatics and Communications Technology Complex (IT)

535 W. Michigan Street, IT475J

Indianapolis, Indiana 46202

317-274-7380

Scholarship Program Info Next Page

IUPUI School of Informatics Continued:

LiFT Scholarship for high school seniors to study at IUPUI or Ivy Tech:

The **Leading Informatics for Tomorrow (LiFT) Scholars Program** is funded by the National Science Foundation. Students selected to be a part of the LiFT Scholars Program receive renewable, unmet-need scholarships to study informatics, either by pursuing a bachelor's degree in informatics at the Indiana University School of Informatics and Computing at IUPUI, or by pursuing an associate's degree from the School of Information Technology at Ivy Tech Community College Central Indiana. Forty students are selected each year—20 for each institution.

Benefits

When combined with other student and federal aid, LiFT Scholarships allow students to complete their degrees with limited or no educational debt. The maximum award is \$7,500/year at the School of Informatics and Computing at IUPUI and \$2,500/year at Ivy Tech.

In addition to financial support, LiFT Scholars benefit from:

- A community of LiFT Scholar peers
- Peer and faculty mentoring
- Cross-institutional industry mentoring
- Career and leadership development
- Participation in research and industry-based internship experiences

LiFT Scholars attending Ivy Tech can also transfer to the School of Informatics and Computing at IUPUI to pursue a bachelor's degree in informatics. LiFT Scholars at IUPUI have the opportunity to live on campus with fellow LiFT Scholars and SOIC students.

Who Is Eligible

Students must:

- Be current graduating high school seniors when they apply for IUPUI LiFT applicants. Ivy Tech LiFT applicants can be current graduating high school seniors, new Ivy Tech students, or continuing Ivy Tech students who have completed less than 24 earned credits at the time of application.
- Be admitted as first-time undergrads to the School of Informatics and Computing at IUPUI, or to Ivy Tech.
- Pursue the bachelor's degree in [informatics](#) at the School of Informatics and Computing at IUPUI, or pursue any [associate's degree](#) in the School of Information Technology at Ivy Tech Community College Central Indiana — and plan to pursue a career in informatics/information technology.
- Plan to enroll full-time (a minimum of 12 credit hours each semester) in college-level coursework.
- Be U.S. citizens or [eligible noncitizens](#).
- Demonstrate financial need as defined for undergraduate students by the U.S. Department of Education's criteria for need-based federal financial aid. Financial need is the amount of a student's total cost of attendance (COA) that is not covered by the expected family contribution (EFC) or grants and scholarships.

How to Apply

1. File the Free Application for Federal Student Aid (FAFSA) first to determine if you demonstrate financial need and are eligible to apply. This can be verified by the Financial Aid Office.
2. Fill out and submit the application at soic.iupui.edu/undergraduate/lift-scholars/apply/
3. IUPUI LiFT applicants must acquire and submit one letter of recommendation from a teacher or a counselor. No letter of recommendation is needed for current Ivy Tech LiFT applicants at this time.

Questions? Contact Molly Morin, Program Manager, LiFT Scholars Program: (317) 278-2385 or mfmorin@iu.edu

Indiana Summer Camps, Workshops and Other Summer Programs

1. IUPUI POWER Camp

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

Phone: 317-274-8703

Location: IUPUI Campus

Date: July 12-18

Age: High School Girls

The POWER Summer Camp gives you the opportunity to explore engineering through hands-on, learn-by-doing experiences. Guided by professors and current engineering students you'll conduct experiments, innovate, make cool stuff, take things apart and then put them back together again. We offer exciting opportunities to meet a diverse selection of professional women engineers and young college women inspiring to be engineers and spend time checking out up-and-coming technology in engineering through innovation modules.

Financial Assistance Available. Call to inquire about the availability of financial assistance

2. Summer of Service at IU Health Network Hospitals like University, Methodist, Riley and Others

<http://iuhealth.org/about-iu-health/volunteering-at-indiana-university-health/volunteer-opportunities/volunteer-opportunities-in-indianapolis/where-volunteers-can-serve/summer-of-service-program/>

3. Marian University EcoLab and Other STEM and Science Camps

<https://www.marian.edu/about-marian/nina-mason-pulliam-ecolab>

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

4. MATH SAT Prep Course

Website: <http://www.isind.org/campus-life/2015-summer-camps/grades-9-11.aspx>

Location: International School, Indianapolis

Date: June 22-26

Age: Grades 9-11

This course aims to help High School students develop a better understanding of SAT exam requirements and become familiar with materials need for success. Students will: develop important skills to allow for effective problem-solving specific to the SAT exam, build logical reasoning skills and discover proper computational steps to problem-solve. Students will practice questions from previous SAT exams.

5. IUB-JH: Indiana University Bloomington - Jim Holland Programs

Summer Enrichment Program (SEP) - <https://biology.indiana.edu/about/outreach/k-12-students/holland-summer-science-programs/holland-summer-enrichment.html>

Summer Science Research Program (SSRP) - <https://biology.indiana.edu/about/outreach/k-12-students/holland-summer-science-programs/holland-summer-science-research.html>

Research Initiative in STEM Education (RISE) - <https://biology.indiana.edu/about/outreach/k-12-students/holland-summer-science-programs/holland-stem.html>

For information contact:

Mary Ann Tellas, Program Director, IU Jim Holland Summer STEM Programs - nmassela@indiana.edu

6. University of Indianapolis HCOP and CPA

www.mici-ahec.uindy.edu

CPA = [College Preparatory Academy](#)

HCOP-INDY = [Health Careers Opportunity Program to Increase Needed DiversitY](#)

Information available from: Erica Young younger@uindy.edu or Raven Orr - orrr@uindy.edu

7. MEAP – Minority Engineering Advancement Program – at IUPUI

<http://www.engr.iupui.edu/infofor/community/summer-camps/meap.php>

MEAP is a week-long, summer, non-residential camp on the IUPUI campus. MEAP is for students who have completed 6th through 11th grade levels. The camp is designed for students that are underrepresented in engineering and technology careers.

For more information, please contact:

Minority Engineering Advancement Program
Purdue School of Engineering & Technology, IUPUI
799 W Michigan Street, ET 215
Indianapolis, IN 46202-5160
Phone: 317.274.2943
Fax: 317.274.4567
E-mail: Patrick Gee pgee@iupui.edu

8. Tech Camp : <http://www.engr.iupui.edu/infofor/community/summer-camps/techcamp.php>

Also at IUPUI Engineering & Technology

9. WinIT (Women in Information Technology)

Residential Summer Camp on the campus of IUPUI

<http://www.engr.iupui.edu/infofor/community/summer-camps/winit.php>

10. Indianapolis Children’s Museum – Children’s Apprentice Program

<https://www.childrensmuseum.org/content/museum-apprentice-program>

Purdue University Programs for Students and Teachers. 2018 Pre-College On-Campus Programs!

GERI at Purdue – Gifted Ed Resource Institute – multiple grades camp opportunities

<https://www.education.purdue.edu/geri/>

You can see all the options at purdue.ag/camps and see the brief descriptions of three popular programs below. We will also be at the Hoosier Association of Science Teachers, Inc. (HASTI) Conference next week, if you plan to attend you can find us at **booth 305!**

- Serve as a mentor for your students and attend the [World Food Prize \(WFP\) Youth Institute at Purdue University](#). Purdue has developed a special connection with the World Food Prize Foundation because of our three World Food Prize Laureates: Phil Nelson in 2007, Gebisa Ejeta in 2009, and Akin Adesina in 2017. Participants will have the opportunity to come to Purdue on **April 26-27, 2018**, free for the student and teacher. **The research paper requirements will meet many of Indiana's education standards including the core literacy standard.** [Click here for paper instructions](#) Student papers and final registrations are due by Monday, April 2, 2018.
- Recommend your high achieving sophomore and junior students with an interest in the biological and life sciences to the [Pre-College Molecular Agriculture Summer Institute \(MASI\)](#) set for **June 24th-30th, 2018**. Pre-College MASI is a free, one-week residential program held at Purdue University, West Lafayette. Students work directly with a Purdue University faculty member on a laboratory experiment, present their experiment at the conclusion of the program, and participate in workshops and tours highlighting the Land Grant and Agriculture Mission. [Here's what a past Pre-College MASI cohort had to say about their experience!](#) We ask that you encourage your students with an interest in science and technology to apply to Pre-College MASI by [completing the application](#) and returning it to our office, postmarked no later than April 16th.
- The [Purdue Agribusiness Science Academy \(PASA\)](#) offers a 13-day [High School Summer Institute](#) for rising sophomores, juniors and seniors to immerse in STEM themes with research projects and tours from **July 8th-21st, 2018**. The institute is held on the Purdue University, West Lafayette Campus and includes tours around campus and industry throughout the state of Indiana. There is also a 2 day [Teacher Workshop](#) available June 20th-22nd. Teachers can earn 2 CEUs during this program.

Please feel free to share this information with other professionals who may have students/youth with an interest, and to reach out to myself or my colleagues (contact e-mails below) with any questions you may have! We are ever grateful for your continued support and participation in these programs!

Sincerely,

Amy Jo Jones

Pre-College MASI Program Coordinator
Co-Coordinator, World Food Prize Youth Institute
Office of Academic Programs | jones176@purdue.edu
Purdue University – College of Agriculture

Kelly Delp

Co-Coordinator, World Food Prize Youth Institute
University Development Office | kidelp@prf.org
Purdue Research Foundation – College of Agriculture

Myron D. McClure

PASA Program Coordinator
Office of Multicultural Programs | mcclure0@purdue.edu
Purdue University – College of Agriculture

STEM Training and Enrichment Programs Available Year-Round.

1. IU-HCOP: The Indiana University Health Careers Opportunity Program at the IUPUI School of Health and Rehabilitational Sciences.

There are numerous programs available for both Juniors and Seniors, some in summer, others during school year. There are funds available to those who participate.

Location: IUPUI Campus, School of Health and Rehabilitational Sciences

Website: <http://shrs.iupui.edu/about/IU-HCOP/index.html>

Contact: Shawniece Hawkins, Program Manager hawkisha@iu.edu 317-278-4707

2. CLC = Center for Leadership Development.

Known as 'CLD', there are numerous quality programs for students interested in STEM, science and medicine fields and many other fields beyond. They offer both summer and year-round programs. There are phone numbers and contact emails on their website, <https://cldinc.org/>

3. Zoo Teens

<http://www.indianapoliszoo.com/contact/employment-and-volunteers/volunteers/zoo-teens>

4. Information Technology & Computer Training

<https://ittraining.iu.edu/schedules/>

Printable PDF listing: <https://ittraining.iu.edu/print/schedule-iupui.pdf>

STEM Programs for Middle School and High School Students

1. MEPI – Minority Engineering Program of Indianapolis <http://www.mepi.org/>
This program enrolls students in grade 7 and students participate until they graduate high school. It is specifically designed for URM students, Under Represented Minorities (in science and engineering).
2. Indiana University STEM camps - http://www.indiana.edu/~dema/resources/precollege_pgms.shtml
3. Indiana University Adventures in STEM camps
http://www.indiana.edu/~dema/news/archive2013/STEM_summer_sci_camp.shtml

STEM Programs for Younger Students and Grades 1-12

The following are listing from the IU School of Medicine

<http://faculty.medicine.iu.edu/gender-diversity-inclusion/diversity-affairs/programs-for-k-12-2/>

Marian University STEM Summer Camp

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

Phone: 317-524-7701

Location: Marian University

Date: June 15-19, June 22-26, June 29-July 3 and July 6-10

Age: Grades 1-8

Activities include hands-on, standards-based classroom, lab and outdoor activities and field trips

Marian University STEM Summer Camps are week-long standards-based, and grade specific academic enrichment adventures on the campus of Marian University. Each week is a different theme and each week a camper attends will be a different experience.

Registration Information

\$225 per week (8:30 a.m.-4:30 p.m.)

\$25 per week for before-care (7:30-8:30 a.m.)

\$25 per week for after-care (4:30-5:30 p.m.)

Deposit for STEM Summer Camp: At the time of registration, full registration fee is required or a non-refundable \$50 deposit to hold a place on the camp roster. If a deposit is paid, the balance of the registration fee will be due by the registration deadline.

Full registration payment is required by the deadline date, May 22, 2015

Financial Assistance Available

Special discounts:

15 percent discount – Child or grandchild of a Marian University faculty, staff, student, alumni, or trustee

15 percent discount – Student who attends a Catholic school

50 percent discount – Student who participates in the Free or Reduced Lunch Program

Sibling Discount – Full price for 1st sibling and 15% discount for each additional sibling

Discounts also apply to before care and after-care

Only one discount per camper

iD Tech Camps

Website: <https://www.idtech.com/locations/indiana-summer-camps/indianapolis/id-tech-butler-university/#courses-dates>

Phone: 1-888-709-TECH (8324) or 1-408-871-2227

Location: Butler University, Purdue University

Dates: Weeks of June 8, June 15, June 22, June 29, July 6 and July 13

Age: 7-17 years old

Yes, we're a tech camp, but we do not sit in front of digital devices all day. We provide a well-balanced, fun summer camp experience that is age-appropriate for kids, pre-teens, and teens. Imagine a small group learning environment where the curriculum is tailored to you. A place where you build critical 21st century STEM (Science, Technology, Engineering, and Math) skills in intimate clusters of just 8 students maximum per instructor, and collaborate with new friends

Costs: \$799-\$909

Our courses sell out very fast—sometimes as early as January, so avoid disappointment and enroll at your earliest convenience. Remember, you can register now and make changes later with no penalties—we offer flexibility for the modern parent.

Financial Assistance Available: Yes

Mad Science

Website: <http://indy.madscience.org/campexperience.aspx>

Phone: 317-388-0988

Location: varies

Date: TBA

Age: varies depending on type of camp, see website for details

Mad Science camps offer a daily combination of in-class discovery and exploration, outdoor games and physical activities, and hands-on applications of the scientific principles presented. Your child will be able to touch, see, hear, smell and taste what science is really all about. We use simple, real world science techniques that allow even the youngest of campers to enjoy our learning environment. Campers create, build and assemble a variety of take-home projects while exploring how science affects the world around us.

Mad Science Kids' Lab

Website: <http://www.isind.org/campus-life/2015-summer-camps/kindergarten—grade-2.aspx>

Location: International School, Indianapolis

Phone: 317-388-0988

Date: June 15-19

Age: Kindergarten – Grade 2

Campers will discover in a fun, hands-on way just how science impacts their everyday lives. They will investigate the lives of our flying friends – birds, bugs, and bats; create bubbly, fizzy, and colorful chemical concoctions; build structures as they experiment with which shapes are the strongest; explore our environment on Earth; and learn about the solar system and outer space. This unique combination of topics will capture the fascination of even the most timid science adventurer!

Mad Science Robotics Camp

Website: <http://www.isind.org/campus-life/2015-summer-camps/grades-3—5.aspx>

Phone: 317-388-0988

Location: International School, Indianapolis

Date: June 22-26

Age: Grades 3-6

Campers in the Mad Science Robot camp will build the OWI ATR robot. This fun robot can be assembled in one of three configurations; the Gripper, the Forklift and the Rover. Campers will begin the week with a box of parts and each camper will depart on Friday with a working robot. During the week, campers will learn fundamental properties of simple construction, gears, electric circuits and robotics.

Bricks 4 Kidz

Website: <http://www.bricks4kidz.com/indiana-carmel-fishers-noblesville/program-events/camps/>
Phone: 317-572-7357
Locations: Carmel, Fishers, Noblesville
Date: TBA
Age: 5 and up

Bricks 4 Kidz® offers seasonal half-day camps for children who enjoy even more time to explore and build! Our day camps provide children with the opportunity to go more in depth with some of the concepts and themes that we explore. Day camps continue to focus on concepts that include Science and Technology, but also feature weekly themes, games, and challenges to make learning even more fun.

Camp Invention

Website: www.campinvention.org
Phone: 800-968-4332
Locations: Avon, Fishers, Franklin, Greenwood, Indianapolis, New Palestine, Noblesville, Pittsboro, Plainfield, Whitestown, Zionsville
Date: Varies per location, see website for listings
Age: Grades 1-6

Camp Invention inspires girls and boys to think BIG and imagine how they can change the world for the better one day! This one-of-a-kind weeklong experience connects science, technology, engineering and math through fun hands-on activities. The program allows students to learn about creative problem solving (and so much more!) in teams grouped by age.

Indiana State Museum Summer Camps

Website: <http://indianamuseum.org/events/details/id/2475>
Phone: 317-232-1637
Locations: Downtown
Date: Vary, beginning June 1
Age: 8-14 depending on program

Whether your child's perfect summer means solving crimes, digging up fossils, or designing your own fashion line, the Indiana State Museum has a summer camp that's right for them. Camps begin on June 1 and each week delivers a new adventure based on the museum's outstanding exhibitions and collections. Campers will explore topics including forensic science, paleontology, fashion, nature, architecture, history and the science of the circus for some hands-on, educational fun.

Indianapolis Zoo Summer Camps

Website: <http://www.indianapoliszoo.com/conservation-and-education/education/family-youth-experiences/zoo-camps>

Phone: 317-630-2001

Locations: Downtown

Date: Vary

Age: 5-14

Looking for a way to get a more in-depth experience at the Zoo? Try out one of our summer camps! We offer either 3- or 5-day camps to children between the ages of 5 and 12. Participating campers can look forward to tours of the Zoo and White River Gardens, games, songs, creative craft projects, animal shows, and more.

Indianapolis YMCA Camps

Website: <http://www.indymca.org/classes-programs/camps/>

Phone: 317-484-9622

Locations: Across the city

Date: Vary

Age: Vary depending on program

This year's educational camps include Lego Engineering, Roller Skating STEM club, and Mad Science. Financial assistance is available for families in need.

National Programs and Summer Internships

1. National Institutes of Health internship programs for high school students:

https://www.training.nih.gov/summer_programs_comparison_-_revised

2. National Youth Leadership Forum in Medicine *other fields available also

<http://www.envisionexperience.com/explore-our-programs/national-youth-leadership-forum-medicine>

3. Glaciology Program in Alaska for Girls, University of Alaska at Fairbanks.

<http://news.uaf.edu/application-deadline-approaching-for-free-glaciology-program-for-high-school-girls/>

4. Cold Springs Harbor Laboratory – opportunity for undergraduates – 2017

<http://www.cshl.edu/Education/Undergraduate-Research.html>

5. Search Tool to Search for other programs locally, regionally and nationally:

<http://www.pathwaystoscience.org/programs.aspx>

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Name	Topic/Field	Web
American Field Service Summer Focus	Foreign Exchange	www.afsusa.org
Ball State University DesignWorks	Architecture and Planning	www.bsu.edu/cap/designworks
Ball State University Youth Summer Design Forum	Interior Design	https://cms.bsu.edu/academics/collegesanddepartments/construction-management-interior-design/interiordesign/summer-design-forum/youth-summer-design-forum
Beloit Center for Language Studies	Foreign Language	www.beloit.edu/cls
Boston College Experience	Many	www.bc.edu/bce
Boston University - Program in Mathematics for Young Scientists	Math	http://www.promys.org/
Boston University Summer Term - High School Honors	Many	http://bu.edu/summer/highschool
Boston University Summer Term - Research Internship	Science and Engineering	http://bu.edu/summer/highschool
Boston University Summer Term - Summer Challenge	Many	http://bu.edu/summer/highschool
Boston University Summer Term - Summer Preview	Biology or Writing	http://bu.edu/summer/highschool
Bradley University Summer Enrichment	STEM	http://www.bradley.edu/academic/cio/stem/k12/
Broadreach global education & skill-building summer adventures program	Many	www.broadreachcollege.com
Brown Pre-College	Many	www.brown.edu/ce/pre-college
Calvin College	Many	http://www.calvin.edu/offices-services/pre-college-programs/camps/
Cornell University Summer Programs	Many	http://www.sce.cornell.edu/sc/
Dolan DNA Learning Center	Science - DNA	http://summercamps.dnalc.org/info/
Hanover College Summer Academy	Many	www.hanover.edu/summeracademy
Harvard University	Many	https://www.summer.harvard.edu/high-school-programs
iD Tech Camps	Technology	www.internaldrive.com
Indiana State University Summer Honors Program	Many	www.indstate.edu/experience
Indiana University	Many	http://precollege.indiana.edu/program-list/index.shtml
Indiana University Department of Biology	Science	http://www.bio.indiana.edu/community/precollege/Holland_SEP/index.shtml
Indiana University Jim Holland Summer Science Programs	Science	http://go.iu.edu/holland
Indiana University Kelley School of Business	Minority Business	http://kelley.iu.edu/Ugrad/PreCollege/MEETKelley/page39079.html
IUPUI	Nanotechnology	http://indi.iupui.edu/outreach.php
IUPUI	Technology	http://soic.iupui.edu/about/high-school-programs/summerworkshops/
IUPUI Summer SPAN Program	College Credit	https://span.iupui.edu/
Jim Holland Summer Enrichment Program Indiana University	Science	http://www.bio.indiana.edu/community/precollege/Holland_SEP/
Johns Hopkins University	Many	www.jhu.edu/summer
Michigan Math & Science Scholars	Math & Science	http://www.math.lsa.umich.edu/mmss/
Ohio Northern University	Science	http://www.onu.edu/academics/summer_academic_and_honors_institute
Outward Bound	Outdoor Education / Leadership	www.outwardboundwilderness.org
Overland Summer program	Outdoors, service & learning	overlandsummers.com/apply

Name	Topic/Field	Web
Pre-Collegiate Summer Program in Early American History Purdue University	History	www.wm.edu/niahd
Purdue University	Engineering	https://engineering.purdue.edu/Engr/InfoFor/Honors/STEP
Purdue University	Many	http://www.purdue.edu/summercamps/
Purdue University School of Veterinary Medicine	Veterinary Science	www.vet.purdue.edu/boilervetcamp
Rose-Hulman's Operation Catapult Program	Project Development/Design	http://www.rose-hulman.edu/admissions-financial-aid/early-planning/operation-catapult/about-operation-catapult.aspx
Rustic Pathways Groups international education and community service	Outdoor	rusticpathways.com/groups
Smith College Science Program	Science & Engineering for Women	www.smith.edu/ssep
Stanford Summer College	Many	https://summercollege.stanford.edu/
Stanford University Pre-college Studies	Many	spcs.stanford.edu/collegecounselor
Summer Fuel: UC Berkley, Harvard, Oxford University, UMass, Stanford, Yale, Columbia, Tufts; Spain, France, Italy	Many	http://www.summerfuel.com/
Summer Honors	Many	indstate.edu/experience
Summer Science Program	Science	http://www.summerscience.org/
Summer Study in Paris 2016 at the Sorbonne	Many	www.SummerStudy.com
Summer Study in Washington, DC at American University	Many	www.SummerStudy.com
Sweet Briar College	Engineering and Arts	http://sbc.edu/summer-programs/
The George Washington University Pre-College Program - College Intensive	Many	www.precollege.gwu.edu
The George Washington University Pre-College Program - Summer Immersion	Engineering	www.precollege.gwu.edu
Tufts University	Many	https://ase.tufts.edu/summer/study-pre-college-courses.asp
United States Naval Academy Summer Seminar	Military	http://www.usna.edu/Admissions/Programs/NASS/index.php
University of California at Santa Barbara	Social, Life & Physical Science	http://www.summer.ucsb.edu/pre-college/pre-college-programs
University of Cambridge - Cambridge College Programme	Many	http://studyabroadincambridge.org/summer-programme.html
University of Dayton	Engineering	https://www.udayton.edu/engineering/k-12-programs/index.php
University of Maryland Young Scholars Program	High Ability - Various	http://oes.umd.edu/index.php?slab=young-scholars-program
University of Michigan	Many	https://ceo.umich.edu/k-12-summer-academic-opportunities/
University of Notre Dame Pre-College Programs	Many	https://precollege.nd.edu/
University of Pennsylvania- Engineering Summer Academy at Penn	Engineering	www.seas.upenn.edu/esap
University of Virginia	Many	https://summer.virginia.edu/uva-advance
Washington University in St. Louis Summer Experiences	Many	http://admissions.wustl.edu/academics-majors/Pages/Summer-Programs-for-High-School-Students.aspx
Xavier University JUMP Start	Pre-med & Forensic Science	www.xavier.edu/jumpstart
Youth for Understanding International Exchange	Foreign Exchange	www.yfu.org

STEM Training and Opportunities for Science Teachers

It is recommended that Indiana Science teachers become members of **HASTI**, the Hoosier Association for Science Teachers. They have an active Facebook group at

<https://www.facebook.com/groups/102146046520136/>

IUPUI Research Experience for Teachers (RET), Advancement in Nanotechnology (RETAIN) compensates teachers through a personal stipend, travel support, and funds school and lab supplies.

<http://indi.iupui.edu/RET.php>

Other STEM Programs, Opportunities and Resource Links:

1. IUPUI Center for Research and Learning. This site is intended for university students but also includes information for high school programs
www.crl.iupui.edu
2. Indiana CTSI Summer Programs
<https://www.indianactsi.org/programs/summerinternships>
3. Indiana University School of Medicine Research Programs
<http://medicine.iu.edu/research/student-research-opportunities/internships/>
4. Indiana Junior Academy of Sciences (IJAS)
<http://college.indiana.edu/science/academy/>
5. Indiana Academy of Science
<http://www.indianaacademyofscience.org>
6. Celebrate Science Indiana
www.celebratescienceindiana.org
7. I-STEM Network
<https://www.istemnetwork.org/>
8. IUPUI School of Science link for Project SEED
<http://science.iupui.edu/community/project-seed>
9. American Chemical Society (ACS) testimonials for Project SEED
<http://www.acs.org/content/dam/acsorg/education/students/highschool/seed/2015-seed-program-highlights.pdf>
10. American Chemical Society Indiana Section
www.acsindiana.org

2018 STEM Events Listing

1. February 17 Saturday, Indiana Physiological Society (IN Phys) Annual Meeting

More info at www.indianaphys.org

Location: Taylor University

Time: 10am - 5:30pm **not required to attend entire day*

Sponsor: Indiana Physiological Society

Contact: Indiana Physiological Society, inphysio@iupui.edu

* Abstract Registration deadline is February 5, 2016.

The meeting will feature:

- Poster and oral presentations given by postgraduate, graduate, undergraduate and high school students.
- Breakout sessions: career planning, model organisms in physiology research and teaching, and active learning methodologies for educators.

All topics related to physiology are welcome for this meeting and there will be cash awards for student presenters (\$500 top award and several \$100 awards). This is a terrific meeting for students to practice their presentation skills in a “user friendly” environment.

2. October 6, 2018, Saturday, CSI – Celebrate Science Indiana

All day family friendly event at the Indianapolis Fairgrounds. You may come for as little or as long as you want.

Admission is free but car parking is \$5. See website for featured events and other details

<http://www.celebratescienceindiana.org/>

Past events from 2016

3. March 26 Saturday, Indiana Academy of Science Conference and Poster Session

Location: Indianapolis Marriott Hotel

Time: 8am-6pm **not required to attend entire day*

Sponsor: Indiana Academy of Sciences

Website: <http://www.indianaacademyofscience.org/>

Abstract Registration deadline: Feb 10

<http://www.indianaacademyofscience.org/Documents/Annual-Meetings/IAS-2016/Call-for-Papers.aspx>

Attendance Registration deadline: March 23

4. July 21 Thursday, Indianapolis Project SEED Poster Session

Location: IU School of Medicine, Indianapolis

Time: 4pm-8pm ** not required to attend entire day*

Sponsor: American Chemical Society, IUPUI Campus Schools

Contact: Elmer Sanders, elmer.sanders@yahoo.com, (317) 514-3212

Website: www.indyprojectseed.org

5. October 1 Saturday, Celebrate Science Indiana

<http://www.celebratescienceindiana.org/>

6. November 11 Friday, Indiana Junior Academy of Sciences (IJAS)

<http://college.indiana.edu/science/academy/>