Indiana CTSI Project STEM

Developing the pipeline of future scientists through support for the Project SEED, Project STEM² And FSP ³ High School Summer Research Internship Programs

Indiana 2019 STEM Education Outreach
Programs and Events Directory
www.IndianaProjectSTEM.org/stem.pdf

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

Page  Program Type:
3  Summer Internship Programs affiliated with the Indiana CTSI Project STEM
4  Summer Research Programs for High School Students
5  IUPUI School of Informatics and Computing
7  Summer Camps, Workshops and Other Indiana Summer Programs
9  Purdue University – GERI and School of Ag outreach programs
10  STEM Training and Enrichment Programs Available Year-Round
12  STEM Programs for Middle School – High School Students
14  STEM Programs for Younger Students and Grades 1-12
16  National Programs and Summer Internships
19  STEM Training and Opportunities for Science Teachers
    Other STEM Programs, Opportunities and Resource Links
    STEM Events
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

It is our goal to serve Indiana’s students, families and STEM professionals by posting new listings with accurate and updated information. We welcome your input in updating this list. Please contact Elmer Sanders at elsander@iu.edu or by phone at (317) 514-3212. Thank you!
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: [link](http://cancer.iu.edu/education/training/summer-research/index.shtml)
Contact: Vicki Bonds, MS, M.Ed. vgbaiief@iu.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: [link](http://www.wellscenter.iupui.edu/education/internships)
Contact: Lynn Pressler (lpressle@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: [link](https://physics.iupui.edu/physics/research/studentresearchopportunities)
Contact: Dr. Horia Petracache (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: [link](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: [link](http://indi.iupui.edu/index.php) and [link](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: [link](http://shrs.iupui.edu/about/IU-HCOP/index.html)
Contact: Shawniece 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/](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](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**

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)

4. **MATH SAT Prep Course**
   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](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](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](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](http://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](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

Also at IUPUI Engineering & Technology

9. WinIT (Women in Information Technology)
Residential Summer Camp on the campus of IUPU
[http://www.engr.iupui.edu/infofor/community/summer-camps/winit.php](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](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 | kidelprf.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](http://shrs.iupui.edu/about/IU-HCOP/index.html)
   Contact: Shawniece Hawkins, Program Manager [hawkisha@iu.edu](mailto: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/](https://cldinc.org/)

3. **Zoo Teens**

4. **Information Technology & Computer Training**
   [https://ittraining.iu.edu/schedules/](https://ittraining.iu.edu/schedules/)
   Printable PDF listing: [https://ittraining.iu.edu/print/schedule-iupui.pdf](https://ittraining.iu.edu/print/schedule-iupui.pdf)
STEM Programs for Middle School and High School Students

   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](http://www.indiana.edu/~dema/resources/precollege_pgms.shtml)

3. Indiana University Adventures in STEM camps
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](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 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**


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**


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
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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<tr>
<th>Name</th>
<th>Topic/Field</th>
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<tr>
<td>American Field Service Summer Focus</td>
<td>Foreign Exchange</td>
<td><a href="http://www.afsusa.org">www.afsusa.org</a></td>
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<td>Ball State University DesignWorks</td>
<td>Architecture and Planning</td>
<td><a href="http://www.bsu.edu/cap/designworks">www.bsu.edu/cap/designworks</a></td>
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<td>Ball State University Youth Summer Design Forum</td>
<td>Interior Design</td>
<td><a href="https://cms.bsu.edu/academics/collegesanddepartments/construction-management-interior-design/interiordesign/summer-design-forum/youthsummer-design-forum">https://cms.bsu.edu/academics/collegesanddepartments/construction-management-interior-design/interiordesign/summer-design-forum/youthsummer-design-forum</a></td>
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<td>Beloit Center for Language Studies</td>
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<td>Boston College Experience</td>
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<td><a href="http://www.bc.edu/bce">www.bc.edu/bce</a></td>
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<td>Boston University - Program in Mathematics for Young Scientists</td>
<td>Math</td>
<td><a href="http://www.promys.org/">http://www.promys.org/</a></td>
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<td>Boston University Summer Term - High School Honors</td>
<td>Many</td>
<td><a href="http://bu.edu/summer/highschool">http://bu.edu/summer/highschool</a></td>
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<td>Boston University Summer Term - Research Internship</td>
<td>Science and Engineering</td>
<td><a href="http://bu.edu/summer/highschool">http://bu.edu/summer/highschool</a></td>
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<td>Boston University Summer Term - Summer Challenge</td>
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<td>Boston University Summer Term - Summer Preview</td>
<td>Biology or Writing</td>
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<td>Bradley University Summer Enrichment</td>
<td>STEM</td>
<td><a href="http://www.bradley.edu/academic">http://www.bradley.edu/academic</a> cio/STEM/k12/</td>
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<td>Broadreach global education</td>
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<td><a href="http://www.broadreachcollege.com">www.broadreachcollege.com</a></td>
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<td>&amp; skill-building summer adventures program</td>
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<td>Kaiser College</td>
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<td>Brown Pre-College</td>
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<td>Calvin College</td>
<td>Many</td>
<td><a href="http://www.calvin.edu/offices-services/pre-college-programs/camps/">http://www.calvin.edu/offices-services/pre-college-programs/camps/</a></td>
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<td>Cornell University Summer Programs</td>
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<td><a href="http://www.sce.cornell.edu/sc/">http://www.sce.cornell.edu/sc/</a></td>
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<td>Dolan DNA Learning Center</td>
<td>Science - DNA</td>
<td><a href="http://summercamps.dnalc.org/info/">http://summercamps.dnalc.org/info/</a></td>
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<td>Hanover College Summer Academy</td>
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<td>Harvard University</td>
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<td><a href="https://www.summer.harvard.edu/academic">https://www.summer.harvard.edu/academic</a> programs</td>
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<td>iD Tech Camps</td>
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<td><a href="http://www.internaldrive.com">www.internaldrive.com</a></td>
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<td>Indiana State University Summer Honors Program</td>
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<td><a href="http://www.indstate.edu/experience">www.indstate.edu/experience</a></td>
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<td>Indiana University</td>
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<td><a href="http://precollege.indiana.edu/program-list/index.shtml">http://precollege.indiana.edu/program-list/index.shtml</a></td>
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<td>Indiana University Department of Biology</td>
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<td><a href="http://www.bio.indiana.edu/community/precollege/">http://www.bio.indiana.edu/community/precollege/</a></td>
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<td>Indiana University Jim Holland Summer Science Programs</td>
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<td><a href="http://go.iu.edu/holland">http://go.iu.edu/holland</a></td>
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<td>Indiana University Kelley School of Business</td>
<td>Minority Business</td>
<td><a href="http://kelley.iu.edu/Undergrad/PreCollege/MEETKelley/page39079.html">http://kelley.iu.edu/Undergrad/PreCollege/MEETKelley/page39079.html</a></td>
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<td>IUPUI Summer SPAN Program</td>
<td>College Credit</td>
<td><a href="https://span.iupui.edu/">https://span.iupui.edu/</a></td>
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<td>Jim Holland Summer Enrichment Program</td>
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<td>Indiana University</td>
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<td>Johns Hopkins University</td>
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<td><a href="http://www.jhu.edu/summer">www.jhu.edu/summer</a></td>
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<td>Michigan Math &amp; Science Scholars</td>
<td>Math &amp; Science</td>
<td><a href="http://www.math.lsa.umich.edu/mmss/">http://www.math.lsa.umich.edu/mmss/</a></td>
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<td>Ohio Northern University</td>
<td>Science</td>
<td><a href="http://www.ou.edu/academics/summer_academics">http://www.ou.edu/academics/summer_academics</a></td>
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<td>Outward Bound</td>
<td>Outdoor Education / Leadership</td>
<td><a href="http://www.outwardboundwilderness.org">www.outwardboundwilderness.org</a></td>
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<td>Overland Summer program</td>
<td>Outdoors, service &amp; learning</td>
<td>overlandsummers.com/apply</td>
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<td>Pre-Collegiate Summer Program in Early American History</td>
<td>History</td>
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<td>Purdue University</td>
<td>Engineering</td>
<td><a href="https://engineering.purdue.edu/Engr/InfoFor/Honors/STEP">https://engineering.purdue.edu/Engr/InfoFor/Honors/STEP</a></td>
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<td>Purdue University</td>
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<td><a href="http://www.purdue.edu/summercamps/">http://www.purdue.edu/summercamps/</a></td>
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<td>Purdue University School of Veterinary Medicine</td>
<td>Veterinary Science</td>
<td><a href="http://www.vet.purdue.edu/boilervetcamp">www.vet.purdue.edu/boilervetcamp</a></td>
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<td>Rustic Pathways Groups</td>
<td>Outdoor</td>
<td>rusticpathways.com/groups</td>
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<td>Smith College Science Program</td>
<td>Science &amp; Engineering for Women</td>
<td><a href="http://www.smith.edu/ssep">www.smith.edu/ssep</a></td>
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<td>Stanford Summer College</td>
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<td><a href="https://summercollege.stanford.edu/">https://summercollege.stanford.edu/</a></td>
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<td>Stanford University Pre-college Studies</td>
<td>Many</td>
<td>spcs.stanford.edu/collegecounselor</td>
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<td>Summer Fuel: UC Berkley, Harvard, Oxford University, UMass, Stanford, Yale, Columbia, Tufts; Spain, France, Italy</td>
<td>Many</td>
<td><a href="http://www.summerfuel.com/">http://www.summerfuel.com/</a></td>
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<td>Summer Honors</td>
<td>Many</td>
<td>indstate.edu/experience</td>
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<td>Summer Science Program</td>
<td>Science</td>
<td><a href="http://www.summerscience.org/">http://www.summerscience.org/</a></td>
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<td>Summer Study in Paris 2016 at the Sorbonne</td>
<td>Many</td>
<td><a href="http://www.SummerStudy.com">www.SummerStudy.com</a></td>
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<tr>
<td>Summer Study in Washington, DC at American University</td>
<td>Many</td>
<td><a href="http://www.SummerStudy.com">www.SummerStudy.com</a></td>
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<td>Sweet Briar College</td>
<td>Engineering and Arts</td>
<td><a href="http://sbc.edu/summer-programs/">http://sbc.edu/summer-programs/</a></td>
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<td>The George Washington University Pre-College Program - College Intensive</td>
<td>Many</td>
<td><a href="http://www.precollege.gwu.edu">www.precollege.gwu.edu</a></td>
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<td>The George Washington University Pre-College Program - Summer Immersion</td>
<td>Engineering</td>
<td><a href="http://www.precollege.gwu.edu">www.precollege.gwu.edu</a></td>
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<td>Tufts University</td>
<td>Many</td>
<td><a href="https://ase.tufts.edu/summer/study-pre-college-courses.asp">https://ase.tufts.edu/summer/study-pre-college-courses.asp</a></td>
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<td>United States Naval Academy Summer Seminar</td>
<td>Military</td>
<td><a href="http://www.usna.edu/Admissions/Programs/NASS/index.php">http://www.usna.edu/Admissions/Programs/NASS/index.php</a></td>
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<td>University of California at Santa Barbara</td>
<td>Social, Life &amp; Physical Science</td>
<td><a href="http://www.summer.ucsb.edu/pre-college/pre-college-programs">http://www.summer.ucsb.edu/pre-college/pre-college-programs</a></td>
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<td>University of Cambridge - Cambridge College Programme</td>
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<td><a href="http://studyabroadincambridge.org/summer-programme.html">http://studyabroadincambridge.org/summer-programme.html</a></td>
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<td>University of Dayton</td>
<td>Engineering</td>
<td><a href="https://www.udayton.edu/engineering/k-12-programs/index.php">https://www.udayton.edu/engineering/k-12-programs/index.php</a></td>
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<td>University of Maryland Young Scholars Program</td>
<td>High Ability - Various</td>
<td><a href="http://oes.umd.edu/index.php?slab=young-scholars-program">http://oes.umd.edu/index.php?slab=young-scholars-program</a></td>
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<td>University of Michigan</td>
<td>Many</td>
<td><a href="https://ceo.umich.edu/k-12-summer-academic-opportunities/">https://ceo.umich.edu/k-12-summer-academic-opportunities/</a></td>
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<td>University of Notre Dame Pre-College Programs</td>
<td>Many</td>
<td><a href="https://precollege.nd.edu/">https://precollege.nd.edu/</a></td>
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<tr>
<td>University of Pennsylvania- Engineering Summer Academy at Penn</td>
<td>Engineering</td>
<td><a href="http://www.seas.upenn.edu/esap">www.seas.upenn.edu/esap</a></td>
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<td>University of Virginia</td>
<td>Many</td>
<td><a href="https://summer.virginia.edu/uva-advance">https://summer.virginia.edu/uva-advance</a></td>
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<td>Washington University in St Louis Summer Experiences</td>
<td>Many</td>
<td><a href="http://admissions.wustl.edu/academics-majors/Pages/Summer-Programs-for-High-School-Students.aspx">http://admissions.wustl.edu/academics-majors/Pages/Summer-Programs-for-High-School-Students.aspx</a></td>
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<td>Xavier University JUMP Start</td>
<td>Pre-med &amp; Forensic Science</td>
<td><a href="http://www.xavier.edu/jumpstart">www.xavier.edu/jumpstart</a></td>
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<td>Youth for Understanding International Exchange</td>
<td>Foreign Exchange</td>
<td><a href="http://www.yfu.org">www.yfu.org</a></td>
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</table>
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 fee 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
   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/