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**2022 Sustainable Alternative Energies
Summer Boot Camp**

An Intensive "Boot Camp" Teacher Training Combining Academic Professional Development with Vocational Site Visits to Alternative Energy Providers

*Thanks to funding provided by:
Duke Energy Foundation – Week 1 Frank & Becky Levinson – Week 2*

Rose-Hulman PRISM will be facilitating two Sustainable Alternative Energies Summer Boot Camps for Indiana teachers this summer (see dates for each above). The boot camps take place on the Rose-Hulman Institute of Technology campus. STEM teachers, grades 4 -12, teaching units in their curriculum on sustainable and alternative energies are invited to apply. The purpose of this program is to provide the teachers a true "boot camp experience" in sustainable alternative energies combining academic professional development with vocational site visits to some alternative energy providers in Indiana. Some site visits may be in the form of virtual visits relative to COVID-19 / Omicron protocol.

During the institute, teachers are to be developing standards-based, practical, and comprehensive lessons for units on sustainable alternative energies. Time will be given each day to help guide the development of lesson plans. Teachers will also be given time to share their ideas and collaborate each day.

Upon completion, and after fully participating in the institute, each teacher will receive a kit of supplies containing materials for all the lab activities done during the institute. Teachers can also receive, upon completion of the institute, 45 Professional Growth Points (PGP's) to apply on their Indiana Teacher's License renewal.

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2022 Sustainable Alternative Energies Summer Boot Camp

All participants will be housed in a residence hall on the Rose-Hulman Institute of Technology campus during the institute. Meals will be provided through the Food & Dining Services (Café Bon Appétit) in the student union.

Eligibility Requirements:

- Teachers must be active Indiana teachers teaching units on sustainable alternative energies in grades 4-12.
- Priority will be given to teachers that reside in a Duke Energy service area.
- Priority will be given to teachers that have 0-10 years of teaching experience.

Site visits could include:

Duke Energy Cayuga Power Plant
Hoosier Energy Merom Power Plant
NIPSCO Power Plant

MSD of Wayne Township Schools
Miso Headquarters, Carmel, IN
Benton County Wind Farms

Apply online at: www.rose-prism.org. You must create an account on our website. After setting up an account, you will need to click on Event Registration on the front page (left-hand side under Main Menu). Then, click on the drop-down menu and select: Duke Energy Sustainable Energy Boot Camp – June 2022 or Levinson Sustainable Energy Boot Camp – July 2022.

Complete the online registration form link and submit.

[Contact PRISM](#) if you have any questions.

Resources for Teachers



OpenSciEd aims to provide teachers the materials, support, and power to engage students and to pique their curiosity about the world around them. They want to help enable students to become confident in their ability to think and figure “things out” through questioning, investigating, and solving problems. The developers of OpenSciEd believe that all students can excel in science, learn to problem-solve, and have need to be challenged. Science teachers anywhere can access and download freely available, high-quality, locally adaptable comprehensive course materials and resources that support equity in the learning of science. Utilizing OpenSciEd instructional materials and science technology tools for the classroom, students are engaged in making sense of a phenomenon or problem, which helps connect each lesson across time as well as provide meaning during a lesson.

For more information: <https://www.openscied.org/>



inquiryHub is a research practice partnership engaged in research and development of materials, tools, and processes to promote equitable student learning of STEM. The mission of the inquiryHub partnership is to design, test, and implement tools and strategies for supporting teachers in creating inclusive classroom cultures. They also want to promote the co-designing of curriculum that connects to interests, experiences, and identities of students from diverse racial and linguistic backgrounds. These goals lead to equitable and consequential learning in mathematics and science for all learners. Products created by the inquiryHub partnership include a year-long, digital high school biology curriculum, a digital high school chemistry curriculum, a simulations library, a school-wide lab program for middle school and a variety of professional learning opportunities for teachers.

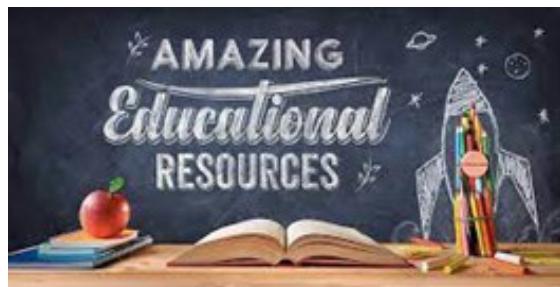
For more information: <https://www.colorado.edu/program/inquiryhub/>

Resources for Teachers



Make learning fun, effective, and a great use of smartphones. Rather than fighting with the struggles of smartphones in the classroom engage students on their phones! Teachers are creating active participation in their classrooms utilizing Wooclap. Using Wooclap teachers are keeping students engaged during lectures and measuring / evaluating student understanding of concepts as they are being presented. Wooclap can enable teachers to improve learning by their students, provide them some unique instructional strategies and enhance collaboration in their courses. Wooclap integrates well with Canvas, Moodle, Blackboard, Google Classroom and Brightspace.

For more information: <https://www.wooclap.com>



Amazing Educational Resources has a goal of offering free access to the best educational resources possible to all parents, students, and teachers. They are supported primarily by the nonprofit organization known as Humanitarian Social Innovations. Amazing Educational Resources was initially created to facilitate free sharing of resources among teachers. The platform has since grown to an all-inclusive hub for educational materials and facilitates access to and sharing of free high -quality resources. Nick Hoover was developed by Nick Hoover, a teacher with 14 years of teaching experience that recognized the need. He believed that there is power and value in sharing. Amazing Educational Resources offers access to high-quality educational materials, facilitates live discussions about resources in their Facebook group, and make the process of finding high quality resources a little bit easier for educators, students, and parents.

For more information: <https://www.amazingeducationalresources.com>

Opportunities for Students

Operation Catapult is an exciting summer camp experience full of science, engineering, and math awesomeness at Rose-Hulman Institute of Technology. Catapult provides STEM opportunities that allow high school juniors or seniors to delve into experiences like robotics, do cool things like brew biodiesel, make an innovative machine from scratch or work on a variety of civil, mechanical, chemical, or electrical engineering projects or electrical engineering projects. Some of the coolest, most STEM-minded high school students from across the U.S. and around the world are typically in this immersive summer experience.

Goals of Operation Catapult:

1. Integrate and supplement previous classroom learning experiences.
2. Explore fundamental scientific and engineering principles and systems.
3. Provide an opportunity for group living in a campus setting.

Students can expect to:

- Set up and run advanced experiments.
- Have direct interaction with dedicated professors at Rose-Hulman Institute of Technology.
- Have a chance to apply engineering and science concepts in exciting projects.
- Use every bit of learning and ingenuity absorbed in their 11 previous years of school.
- Have a blast, meet new friends and build relationships that can last a lifetime!

Cost and Dates for Operation Catapult - Summer 2022:

Cost: \$2,500.00

Session I: Tuesday, June 7 - Friday, June 17

Session II: Tuesday, June 21 - Friday, July 1

Session III: Tuesday, July 12 - Friday, July 22

Application deadline: April 15, 2022.

For more information:

<https://www.rose-hulman.edu/admissions-and-aid/early-planning/operation-catapult/index.html>

Project SELECT at Rose-Hulman

PROJECT SELECT is an immersive, hands-on science and engineering camp at Rose-Hulman Institute of Technology for high school students during the summers after their freshman or sophomore years. In Project SELECT, students build on existing science and mathematics knowledge as they connect it to modern engineering applications. All Project Select students get hands-on experience working one-on-one with Rose-Hulman professors exploring how science can be applied to solve difficult problems, design, and innovate working on exciting projects. Students will work with state-of-the art equipment and have a great deal of "hands-on" learning.

Sunday, July 10 thru Saturday, July 16 (7 Days) – SESSION I

Sunday, July 17 thru Saturday, July 23 (7 Days) – SESSION II

Cost: \$1,450

For more information:

<https://www.rose-hulman.edu/admissions-and-aid/early-planning/project-select/index.html>

What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 5,000.
- Save a list of your favorite resources for quick retrieval.
- Create and share lesson plans that teach your subjects utilizing your favorite resources.
- Develop online classrooms with interactive assignments, lessons, quizzes and more!
- Store your classroom materials online so that they are available to you from any computer.
- Reach your students more effectively by using web media for the digital age.
- Earn PGP points by completing PRISM led online Moodle course – either Beginning Moodle or Intermediate Moodle courses are available to you at no cost several times throughout the year.
- Select from free learning resources that emphasize visualization, rich context, staged-problem solving, and electronically enabled collaboration / communication.
- Augment your own dynamic presence in the classroom with teaching tools that mirror the skills needed for success in higher education and the 21st Century workplace.

Through our strong support from the **Lilly Endowment** and others, we are constantly growing and improving. Check our site regularly to see what new resources you can use in your classroom.

www.rose-prism.org