

Newsletter

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2021 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 (Session 1)
Frank and Becky Levinson (Session 2)*

Hosted on the Rose-Hulman Campus
July 11 - July 16 (Session 1)
July 18 - July 23 (Session 2)

PRISM will be facilitating two different sessions of the Sustainable Alternative Energies Summer Boot Camps for Indiana teachers. 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 participating 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 protocol.

During the boot camps, 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.

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 Appetit) in the student union.

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2021 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 Appetit) in the student union.

Eligibility Requirements:

1. Teachers must be active Indiana teachers teaching units on sustainable alternative energies in grades 4-12.
2. Priority will be given to teachers that have 0-10 years of teaching experience.
3. The Duke Energy Boot Camp (July 11 – 16) has a requirement that ALL participating teachers must reside within a Duke Energy Service area.

Main Topics	Site visits could include:
U.S. Power Grid	Duke Energy Cayuga Power Plant, Cayuga, IN
Energy Conservation	MISO Headquarters, Carmel, IN (Virtual this year)
Coal-fired Power Plants	MSD of Wayne Township (Solar Farm and more)
Natural Gas Power Plants	NIPSCO Power Plant, West Terre Haute, IN
Fuel Cells	Hoosier Energy Merom Power Plant, Merom, IN
Solar Energy	Benton County Wind Farms
Wind Energy	Natural Gas Combined-Cycle Power Plants

COVID-19 Protocol:

- All participating teachers must provide a photo of their certificate of COVID-19 vaccination that will be held on file at Rose-Hulman Health Services. Vaccinations (2 shot series, Pfizer & Moderna, or the Johnson and Johnson single shot) must have been completed at least 2 weeks prior to the first day of the boot camp (6/20/21 or 7/11/21).
- In lieu of the vaccination requirement, teachers must provide a negative COVID-19 test result done within 5 days of the first day of the boot camp.
- Students, faculty, staff and all visitors will wear a face mask at all times while inside any Rose-Hulman facility, including common areas, corridors, classrooms, laboratories, conference rooms, and multi-purpose rooms. Outside, face masks are required where physical distancing is difficult to maintain. Everyone should plan to have a mask with them at all times.
- Social distancing is another important aspect of RHIT protocol. Participants need to maintain at least 6 feet from others where possible, eliminate contact with others (hand-shaking, hugging), avoid touching common surfaces where possible, and ensure frequent hand-washing or hand-sanitizing.

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:

Session 1: Duke Energy Sustainable Energy Boot Camp 2021

Session 2: Levinson Sustainable Energy Boot Camp 2021

Complete the online registration form and submit.

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

Resources for Teachers



Get Body Smart is an online examination of human anatomy and the physiology of the human body. Animated text narrations and quizzes are used to explain structures and functions of all human body systems. Get Body Smart is a very comprehensive set of resources that can be integrated into and aligned with Human and Anatomy courses in secondary or higher education courses. The website is a great resource for instructors, as well as, for students. GetBodySmart represents an attempt to create a fully animated and interactive eBook about human anatomy and physiology and they do a very good job of it. Free tutorials and quizzes are available for teachers to integrate into their pedagogy and are resources for students to study human anatomy & physiology using animations and interactive online activities.sdsdfsdf

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



PBS Learning Media literally brings the world to classrooms. WTIU (Indiana Public Media, Indiana University, Bloomington) and PBS have curated free, standards-aligned online videos, interactives, and comprehensive lesson plans for all content areas and grade levels. On this website, the resources are designed for Indiana educators and school districts specifically. The resources are of very high quality and have been vetted by many professional educators. Resources can be browsed by subject, topic, or grade level. Resources are available for a broad range of academic levels ranging from preK-12 including all AP and college challenge type courses.

For more information: <https://indiana.pbslearningmedia.org/>

Grant Opportunities for Teachers



American Institute of Aeronautics and Astronautics

The American Institute of Aeronautics and Astronautics Foundation (AIAA Foundation) believes that one of the most significant means to inspire and advance the future of Aerospace is to fund grants to meet the unmet and unfunded educational need of students. Each school year, AIAA awards grants of up to \$500 to worthy projects that significantly influence student learning.

Grant Rules

- A clear connection to science, technology, engineering, art, or mathematics (STEAM) with an emphasis on Aerospace must be included in the grant proposal.
- Applicants must be a K-12 classroom teacher with funds that will be paid to the school.
- Applicants must be current AIAA Educator Associate members prior to receiving this grant.
- Each school is limited to up to 2 grants per calendar year.
- Funds must be spent on the items proposed in the original application.

Applications will be evaluated based on the following criteria:

1. **Clarity:** Does the proposal clearly articulate specific, attainable, and measurable goals for a STEM project?
2. **Relevance:** Is the proposed project based on age-appropriate aerospace content?
3. **Scope:** Does the proposed project encompass a diversity of skill sets, worldviews, and thoughts?
4. **Impact:** Is the proposed project or activity sustainable, and will it have broad and lasting educational benefits within the school or community?
5. **Structure:** Does the proposal utilize effective and organized pedagogy, such as learning objectives and relevant educational standards?
6. **Originality:** Is the proposed project creative and novel? Does it suggest creativity on the part of the teacher and require it on the part of the students?

For more information:

<https://www.aiaa.org/get-involved/students-educators/aiaa-foundation-classroom-grant-program>

Grant Opportunities for Teachers

Teacher Creativity Fellowship Program



Lilly Endowment Inc.
A Private Philanthropic Foundation

This year marks the Lilly Endowment's 35th round of its Teacher Creativity Fellowship Program (TCFP). The Teacher Creativity fellowship is one of the Endowment's longest standing programs and began to help Indiana elementary and secondary educators renew their commitment to teaching. As many as 100 grants, each totaling up to \$12,000, will be awarded in 2022. Project proposals from both individual applicants and collaborative groups of two or more may be submitted.

About TCFP

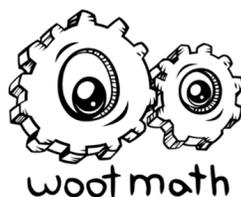
Full-time education professionals in the following areas who have daily face-to-face interaction with students in Indiana's public, private and charter schools are eligible to apply:

- K-12 classroom teachers of all subjects
- Principals and assistant principals
- Librarians and media specialists
- School counselors
- School social workers
- Instructional coaches

Online applications are due on Monday, October 4, 2021.

All applications must be completed and submitted using the form below by 11:59 p.m. (EDT).

To learn more and to apply: <https://lillyendowment.org/for-grantseekers/renewal-programs/teacher-creativity/>



Woot Math provides self-paced, teacher-led and peer-to-peer activities for math classes. Teachers can access and use engaging Woot Math activities for class discussion, practice, and interaction. In this, teachers can get instant data on student performance and provide instant feedback to the student as well. Students can work at online math activities at their own pace. Through adaptive learning activities students are better able to master concepts and become more competent with their math skills. Woot Math also has activities that engage students in activities in which they interact with other students – these include Math Jam and Themed Escape Rooms.

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

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