

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

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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



texthelp provides a range of educational technologies for teaching and learning. They focus on helping to minimize teacher workload and maximize on student performance and outcomes. Using texthelp resources and technologies teachers can create high quality, useful digital instructional materials with ease. Teachers can create a level playing field for all learners using texthelp resources. Students can be engaged and motivated to achieve at higher levels. They offer a literacy support toolbar & digital math tool free for use by teachers. At texthelp, they create smart, inclusive technology to help people read, write, and communicate with accuracy and fluency. read&write & ΣquatIO are accessibility and productivity tools to use with students and are provided free to all teachers. read&write helps millions of students and adults worldwide to read, write and express themselves independently. ΣquatIO makes math both digital and accessible to all. Teachers and students can type, handwrite, or dictate any math expression with no confusing or complicated coding of characters. Texthelp has other high quality accessibility and productivity tools for educators that can subscribed to at reasonable rates.

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



Remind is a communication platform used by educators to communicate highly effectively with students and parents. Messages can be sent in real-time to an entire class or group of students, a single person or can be scheduled effectively as announcements. Files and images can be attached to messages to provide resources to students, parents, or essential community members. Messages can be translated into over 90 languages enabling highly effective communications with all. Teachers can reach students, parents, and other community members where they are. Remind was built for educators. Teachers can activate engagement in their courses and involve not only students but other community members that can become a part of the classroom learning community.

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

Grant Opportunities for Teachers



Sixth to 12th grade teachers are invited to apply on-line for a Toshiba America Foundation grant of up to \$5,000 and more than \$5,000 to help bring an innovative project into their own classroom. Toshiba annual awards grants for innovative STEM projects in middle and high school classrooms.

The Toshiba America Foundation team is trying to consider the impact of the Corona virus on teachers and education. Teachers have had to determine how to work in or outside of a regular classroom. The team cannot presume to suggest how teachers should have dealt with the obstacles created by social distancing and safety concerns. Toshiba's practice has been to consider only one application at a time from any single teacher. Now, however, they will consider alternative proposals contingent upon how, when, and if schools are open as usual. Under the circumstances, the Toshiba team will also try to be more accommodating in considering the kinds of equipment or various expenses that they will fund for school projects.

For more information: <http://www.toshiba.com/taf/612.jsp>



Being an educator or a teacher in a classroom today without the proper educational technology is becoming all too common. Current educational technology in the classroom offers students and teachers alike the benefit to achieve more than ever was thought possible.

Educators of America are driven to not only supply teachers and educators with the classroom technology they need but also train them to use it in the most effective ways possible. If you are a teacher that needs an effective technological tool that will assist in bettering student achievement, Educators of America Microgrant Program could be a funding source to pay for such needs. Grants are available for all K-12 schools (public, private, charter and religious), youth and community centers, ELA centers and STEM Learning Centers.

For more information: <https://educatorsusa.org/our-programs/micro-grants/>

Professional Development Opportunities

Elements of Quantum Computing High School Teacher Workshop



July 25 - July 30, 2021

Recent advancements in the engineering of Quantum Computers have put several groups on the cusp of developing practical Quantum Computers. With these innovations, the time has come to start to consider how to integrate the elements of Quantum Computing into existing High School Math, Physics, and Computer Science courses with an eye on fostering the early participants in a Quantum Computing Workforce. There are, however, few examples of curricular resources for high school students that explore the boundaries of what is possible in high schools. This six-day workshop is about exploring which elements of Quantum Computing can be immediately integrated into existing high school Math, Physics, and Computer Science courses.

The [American Association of Physics Teachers](#) (AAPT) and IBM and funding from the National Science Foundation (NSF), workshop participants will be provided opportunities to learn the basic physics and mathematics of two-state, entangled quantum systems, and then apply this knowledge by coding quantum computing algorithms (circuits) and running them on the IBMQ Quantum Computer using the open-source [IBM Qiskit](#) quantum computing software development framework. Each day of the workshop will follow a basic structure. The mornings will be spent learning Physics concepts and the Mathematics that describes it, and afternoons will be spent translating the topics from the morning into usable code (initially in procedural python, but eventually into Quantum Circuits).

Each participant will be provided a single room at the Grand Hyatt Hotel in Washington DC. All travel costs to and from Washington DC will be reimbursed. Many meals will be provided during the workshop. All participants will be provided a \$500 stipend at the beginning of the workshop.

For more information:

<https://docs.google.com/document/d/1EoWzZMdNLOhrFHvGmdh6cGE8ZkkacaDUW8rTj5sxoUc/edit>



Keep Indiana Learning (KInL) was created by the Central Indiana Educational Service Center and is supported by all the Educational Service Centers in Indiana. KInL provides exceptional resources for Indiana teachers. Best practices are shared through the Keep Indiana Learning website and a solid network of educators are coming together to learn and improve education endeavors in Indiana. Keep Indiana Learning is empowering educators through their collaborative communities. Their goal is to remove as many barriers as possible so that Indiana teachers can connect and learn. Hundreds of educators from across the state of Indiana are working together to provide interactive, on-demand, professional learning opportunities for each other through KInL. Learning opportunities such as Live Events, OnDemand Events and Workshops are offered on a continuous basis on the KInL website. They are also hosting a series of speaker events through the spring and summer. They have resources available to school administrators, student service professionals, teachers and other educators, families and students.

For more information: <https://keepindianalearning.org/>

What PRISM Can Do For You!

- Easily find the perfect teaching and learning resources from our library of over 5,000.
- Store your classroom materials online so that they are available to you from any computer.
- Select from free learning resources that emphasize visualization, rich context, staged-problem solving, and electronically enabled collaboration / communication.
- Save a list of your favorite resources for quick retrieval.
- Reach your students more effectively by using web media for the digital age.
- 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.
- Create and share lesson plans that teach your subjects utilizing your favorite resources.
- 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.

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