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PRISE Announcements

The Philadelphia Regional Institute for STEM Educators (PRISE) cordially invites you to join us and other STEM educator enthusiasts to explore the STEM educator pathway, and why YOU might want to become one!

The Second Annual PRISE STEM Educator Career Exploration Fair will connect future STEM Educators, including high school and college students, college graduates, and career changers, to STEM educators and STEM education stakeholders. Attendees will learn about the pathways to a STEM educator career and why becoming a STEM educator (both in-school or out-of-school) is such a rewarding career!

A NEW aspect of the fair will be awarding PRISE Recognition Awards to high school and college students who have exhibited passion and commitment to teaching through their work in school or out-of-school programs. We invite you to nominate a worthy student, find out more info at prisephilly.org.

The event will include:

- A Keynote speaker addressing the connections between STEM teaching and social justice.
- Recognition ceremony for high school and college students who have done exemplary teaching.
- Workshop sessions for high school students, college and graduate students, and career changers to hear key details and real world examples of how to become a STEM teacher and what it is REALLY like to teach STEM in an urban school.
- An exhibitor hall to learn about:
 - Opportunities to engage in STEM learning, to teach in out-of-school time and summer programs.
 - A variety of teacher education programs in the Philadelphia area.
- Poster session in which high school and college students who have been recognized for their exemplary teaching share about their experiences teaching.

[Click here](#) to register for the fair. [Fill out this form](#) if you would like to help with the fair as a workshop presenter, exhibitor, volunteer, etc. Email Dorianna Estes at destes@sju.edu with any questions.



PHILADELPHIA REGIONAL INSTITUTE FOR STEM EDUCATORS (PRISE)

STEM EDUCATOR CAREER EXPLORATION FAIR

TEMPLE UNIVERSITY

SATURDAY, MARCH 18

9:00 AM - 12:30 PM

The Second Annual Fair will connect future STEM Educators, including high school and college students, college graduates, and career changers, to STEM educators and STEM education stakeholders. Attendees will learn about the pathways to a STEM educator career and why becoming a STEM educator (both in-school or out-of-school) is such a rewarding career!



Professional Learning Opportunities

Understanding STEM Content in Integrated Context in Everyday Life (USTRIVE)

Save the Date: USTRIVE's End-of-year Conference on May 06, 9am-12:30pm at Arcadia University. [Click here for more info and to register.](#)

USTRIVE
UNDERSTANDING STEM TEACHING THROUGH INTEGRATED CONTEXTS IN EVERYDAY LIFE

2-YEAR STEM TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

Earn \$3800+ each year
 Gain new pedagogical knowledge that connects science literacy and social justice

6-12th Grade Philadelphia Area STEM Teachers can find out more at arcadia.edu/ustrive, or email Dorianna Estes at destes@sju.edu

USTRIVE is an NSF funded program led by Arcadia University in partnership with Villanova University, Mercyhurst college, and the Philadelphia Regional Institute for STEM Educators (PRISE) at Saint Joseph's University

USTRIVE is a two-year professional development program that seeks to foster STEM Knowledge and Literacy through the use of a Social Justice STEM framework (SJSF), focusing on Socio-scientific Issues (SSI).

2023-24 ACADEMIC YEAR SCHEDULE

07/31/23-08/03/23 MONDAY-THURSDAY, 9:00AM - 3:00PM, SUMMER INSTITUTE, IN-PERSON, ARCADIA UNIVERSITY
08/07/22-08/10/22 MONDAY-THURSDAY 9:00AM - 3:00PM, SUMMER INSTITUTE, IN-PERSON, ARCADIA UNIVERSITY
09/16/23 SATURDAY 9:00AM - 12:00PM, PLC, ONLINE
10/14/23 SATURDAY 9:00AM - 3:00PM, WORKSHOP/FIELD TRIP, IN-PERSON
11/18/23 SATURDAY 9:00AM - 12:00PM, PLC, ONLINE
12/09/23 SATURDAY 9:00AM - 3:00PM, WORKSHOP/PLC, IN-PERSON
01/20/24 SATURDAY 9:00AM - 12:00PM, PLC, ONLINE
02/17/24 SATURDAY 9:00AM - 12:00PM, PLC, ONLINE
03/23/24 SATURDAY 9:00AM - 3:00PM, WORKSHOP/FIELD TRIP, IN-PERSON
04/13/24 SATURDAY 9:00AM - 12:00PM, PLC, ONLINE
05/04/24 SATURDAY 9:00AM - 3:00PM, CONFERENCE, IN-PERSON

"Scientific literacy entails the ability to make informed decisions, analyze, synthesize, and evaluate varied sources of data and information, use moral reasoning to attend sensibly to ethical issues, and understand the complexity of connections inherent in SSI" (Zeidler, 2014, p. 697).

Programs

Widener University's Engineering Camp for High School Girls

Saturday February 25, 2023
 Noon to 5 pm
 Widener University
 Chester, PA

Girls in grades 9-12 can explore engineering and computer science careers in a hands-on laboratory setting with women engineers from the Philadelphia section of the Society of Women Engineers and female engineering students from Widener University.

Pre-registration is required and available at:
www.widener.edu/engineering/girlscamp

Time	Activity
Noon	Check in
12:20 to 12:40 pm	Welcome
12:50 to 1:40 pm	Laboratory Session #1
1:50 to 2:40 pm	Laboratory Session #2
2:50 to 3:20 pm	Engineering Student Panel Discussion
3:30 to 4:20 pm	Laboratory Session #3
4:30 to 5 pm	Engineering Careers Panel Discussion

Enrollment is limited, so apply early!
 For more information, contact the Dean's Office at 610-409-4037 or egcamp@widener.edu.

Student Contest: Imagine a Clean Energy Future

In order to build a sustainable future we need to be able to see it.

The Philadelphia Solar Energy Association (PSEA) is hosting a contest for 5th-12th grade students in the greater Philadelphia area: **Imagine a Clean Energy Future**. The contest has 3 possible modes of expression. Students may submit in one, two or all three of the categories, below.

What Does a Clean Energy Future Look Like to YOU?

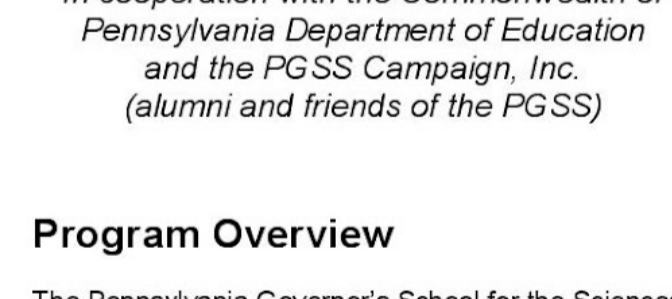
Creative categories:

1. **Visual Arts:** all visual mediums accepted: drawings, paintings, collages, etc.
2. **Language Arts:** with a 500 word (or less) essay, poem or other written format
3. **Video:** 90 seconds or less

PSEA will award prizes for 1st, 2nd & 3rd place winners in each category, and will seek to exhibit all entries in one or more public venues in the Spring of 2023.

Submission Deadline: Feb. 28, 2023
 For contest and entry details visit: <https://www.philsolar.org/student-contest-questions/>. For more information, please contact Liz at: liz@pseas2@gmail.com

Pennsylvania Governor's School for the Sciences



Program Overview

The Pennsylvania Governor's School for the Sciences (PGSS), an affiliate of the National Conference of Governor's Schools, is a 5-week summer residential program for talented high school students of science and mathematics, which emphasizes cooperative learning and hands-on laboratory research. Hosted by the Mellon College of Science at Carnegie Mellon University, the PGSS offers an enrichment experience in science, technology, engineering and mathematics (STEM). The major goal of PGSS is to encourage young talent to pursue careers in STEM-related fields.

Academic program
 The PGSS academic program has five components:

- **Core courses** – lecture-based courses in biology, chemistry, physics, mathematics and computer science constitute a common educational experience for all PGSS students.
- **Laboratory courses** – each student chooses a hands-on laboratory course in biology, chemistry, physics or computer science.
- **Elective courses** – each student may choose up to three additional courses on various topics in STEM-related fields (topics will vary depending on specific faculty interests).
- **Team research project** – each student chooses a research project, carried out cooperatively with a team of 5-6 students, under the direction of a faculty advisor.
- **Guest lectures & panel discussions** – invited presentations by experts in various STEM-related fields.

Faculty and facilities
 The PGSS faculty are recruited primarily from Carnegie Mellon University, and from leading institutions in the surrounding area. The PGSS program of formal instruction and team research is conducted entirely on the Pittsburgh campus of Carnegie Mellon University.

Details

When: July 2 – August 5, 2023
Where: Carnegie Mellon University, Pittsburgh, PA

Who may apply:

- Must be recognized by your school as a junior at the time of the application deadline.
- Must be a resident of Pennsylvania, attending a public, charter, cyber or non-public secondary school, or be homeschooled.

Selection process:

- Application form will be available online at the PGSS website (see URL below).
- Applicant must demonstrate excellence in academic achievement, as evidenced by high school transcript and current report card.
- Applicant must demonstrate sustained interest and involvement in the sciences or mathematics both in and outside of the classroom, as evidenced by resume, essays and letters of recommendation.
- We hope to select up to 72 participants for this year's PGSS class, chosen from the pool of qualified applicants, in order to represent each of Pennsylvania's 29 intermediate units.

Cost and commitment:
 Successful applicants receive a full scholarship to the PGSS program, which includes housing, meals, and all instructional materials. Families are responsible for cost of transportation to and from the program, personal items and spending money. Students must commit to being in residence on the Carnegie Mellon University campus for the duration of the program. Trips home during the program are not permitted.

Information
 For further information, please visit our website: <https://psa.gov/schools>

Resources

- Free resources SIAM offers:**
- **MathWorks Math Modeling Challenge**, March 3-6: a free, virtual competition for high school juniors and seniors that awards \$100,000 in scholarships annually. Students work in teams of 3-5 to develop a solution to a real-world problem over the course of one weekend. All student receive feedback from a team of judges, and finalists have the opportunity to travel to NYC (all expenses paid) to present their solutions in person. The deadline to register is **February 24**.
 - **Graduate Student Mathematical Modeling Camp**, June 7-10 at University of Delaware: this week-long training experience gives graduate students and advanced undergraduates the chance to work in teams to model and analyze problems posed by faculty mentors. Participants will practice a variety of problem-solving skills, including mathematical modeling and analysis, scientific computation, and critical assessment of solutions. The camp is free for those whose applications are accepted, and travel and other expenses are covered as well.
 - **Resources for high school STEM teachers:** we have a variety of teacher-focused videos, articles, and handbooks centered around assessment and instruction in mathematical modeling and technical computing. These resources are all completely free to use and share, and can be incorporated into existing curriculum and lesson plans.

