View this email in your browser

Interested in learning more about the UCEMS PD program for 6th - 12th grade STEM teachers? Please fill out the UCEMS PD Interest Form and we will send you information about our Monday, Wednesday, Friday, 3:30-5:30pm PDT, hybrid **science** PD, the stream or strand Bootcamp or Jumpstart, or the **coaching** cycle. For more info, please contact us at datasciencu@ucsc.edu.

Save the Dates: UCEMS's 10th Annual Conference on Mar 26, Mar 27, Mar 28 in Arcadia University. Click here for more info and to register.

2-YEAR STEM TEACHER PROFESSIONAL DEVELOPMENT PROGRAM

Earn 300hrs credit
Gain new pedagogical knowledge that connects science theory and practice

2022-24 ACADEMIC YEAR SCHEDULE

6-10th Grade Philadelphia Area STEM Teachers can find out more by contacting Lathia, or email Christiana Estes at datasciencu@ucsc.edu

UCEMS is a PAR funded program led by Rutgers University in partnership with Temple University, Drexel University, Philadelphia Regional Institute for STEM Education, and Project Lead the Way.

UCEMS is an 8-year professional development program that seeks to foster STEM teachers' understanding of Data Science, Social Justice STEM Framework (SJSF), focusing on Socio-scientific issues (SSI).

2022-23 ACADEMIC YEAR SCHEDULE

OCTOBER/NOVEMBER/DECEMBER THURSDAY 3:00PM-5:00PM:
SUMMER/SPRING BLENDED, ASYNCHRONOUS, ONLINE
JAN/FEB/MAR/APRIL/MAY/JUNE THURSDAY 3:00PM-5:00PM:
SUMMER/SPRING BLENDED, ONLINE

OCTOBER/NOVEMBER/DECEMBER THURSDAY 3:00PM-5:00PM:
JUNE/JULY/AUGUST 9:00AM-3:00PM:
SUMMER/SPRING BLENDED, ASYNCHRONOUS, IN-PERSON
JAN/FEB/MAR/APRIL/MAY/JUNE THURSDAY 3:00PM-5:00PM:
SUMMER/SPRING BLENDED, ASYNCHRONOUS, IN-PERSON

OCTOBER/NOVEMBER/DECEMBER 9:00AM-3:00PM: ONLY ONLINE
JAN/FEB/MAR/APRIL/MAY/JUNE 9:00AM-3:00PM: ONLY ONLINE
OCTOBER/NOVEMBER/DECEMBER 3:00PM-5:00PM: ONLY ONLINE
JAN/FEB/MAR/APRIL/MAY/JUNE 3:00PM-5:00PM: ONLY ONLINE
OCTOBER/NOVEMBER/DECEMBER 3:00PM-5:00PM: SUMMER/SPRING BLENDED, ASYNCHRONOUS, IN-PERSON
JAN/FEB/MAR/APRIL/MAY/JUNE 3:00PM-5:00PM: SUMMER/SPRING BLENDED, ASYNCHRONOUS, IN-PERSON

"Scientific literacy entails the ability to make informed decisions about issues that involve science and technology data and information, use moral reasoning to attend ability to ethical issues, and understand the complexity of connections inherent in SSI" (Zeidler, 2014, p. 697).

PHILADELPHIA REGIONAL INSTITUTE FOR STEM EDUCATION (PRIsE)

STEM EDUCATOR CAREER EXPLORATION FAIR

TEMPLE UNIVERSITY

SATURDAY, MARCH 18
9:00 AM - 11:30 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 employers in a STEM educator career and city networking & STEM scholarship opportunity fair. Participants will learn about the pathways to a STEM educator career and city networking & STEM scholarship opportunities.

Philadelphia Regional Teaching Experience for Undergraduates: TEU

June 6 - August 5, 2023
8:30 AM - 4:00 PM
Stipend Provided

March 24, 2023
Learn about STEM teaching opportunities in Philadelphia by hearing Philly students and high school students in a panel discussion.

Hybrid opportunity for equity and inclusion in STEM

Priority given to Black and Latinx College STEM Majors

Pre-Participants Receive
- $1000 Stipend
- Free 3 credit STEM Pedagogy course
- Mentoring support
- Daily Lunch
- Transportation Support

Post-Participants Receive
- $1000 Stipend
- Free 3 credit STEM Pedagogy course
- Mentoring support
- Daily Lunch
- Transportation Support

Temple University
College of Science and Technology

Pre-Service & Inservice STEM Teachers Participate in STEM Research Projects in Southeast Pennsylvania

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Programs

Saturday February 25, 2023
9:00 AM - 3:00 PM
Widener University
Chester, PA

Girls ages 14-18 are invited to explore engineering concepts and careers through hands-on activities, presentations, and interactions with female engineers. Participants will learn about the engineering design process, computer programming, and how to develop a prototype.

AMS Free online afterschool program (2023 spring) is part of a research project led by Dr. Xiaoming Zhai at University of Georgia. If you are interested in the program course, you will:
- Learn AI and how AI works in a non-coding (NC) work.
- Train your own NC models to solve real-world problems on your own computer or Google Chrome.
- Your programming experience is NOT required.

Free Fees of charge
Eligible grades: 6 - 8
Spring 2023: Jan. 23 to May 4th
Saturdays (JAN, 6th, 13th, 20th, 27th; FEB, 3rd, 10th, 17th, 24th; MAR, 3rd, 10th, 17th, 24th)
Location: Online

This research project is supported by UGA IRB. For participation, parental consent and student assent must be signed and submitted while online registration.

Limited Seats
Register Now
Register by Jan. 20th
Apply for the code (10 digits) at the website: https://webform.qualtrics.com/jfe/form/SV_bwqqqqqqqqqqqqq

Student Contact: Imagine A Clean Energy Future

A week-long immersive experience that is free to attend!

Students will explore the science behind clean energy technologies, the impacts of fossil fuel use on our environment and communities, and the jobs that will be created in the clean energy economy.

What Does a Clean Energy Future Look Like to YOU?

Leadership Academy

Students will explore the science behind clean energy technologies, the impacts of fossil fuel use on our environment and communities, and the jobs that will be created in the clean energy economy.

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Pennsylvania Governor's School for the Sciences

Summer 2022 Undergraduate Internships with Pennsylvania Sea Grant

Three positions available beginning June 2022

Areas of focus include:
Economic Impacts,
Environmental Literacy & Workforce Development,
and Aquatic Invasive Species

(HARRISBURG, PA) - Pennsylvania Sea Grant is seeking three summer interns to assist with a variety of opportunities for undergraduate students aspiring to gain experience in the fields of Economic Impacts, Environmental Literacy & Workforce Development, and Aquatic Invasive Species. Opportunities include evaluating the economic impacts of the Program's outreach and education efforts, assisting with the development of a new Sea Grant Scholars undergraduate professional development, and action-oriented developing, planning, and leading with aquatic invasive species (AIS) outreach materials and resources, and general outreach and education support.

The purpose of the internship is to contribute to a diverse, well-trained, and skilled workforce that understands technical and social challenges facing coastal communities and the environment, and to provide students with a hands-on experience that will prepare them for graduate school and careers in science, policy, management, and outreach focused on oceans, Great Lakes, and watersheds. Full details about the internship opportunity are available online, and are summarized below.

The internships in Pennsylvania are part of the Sea Grant Phenomenal Internships (SGI) program, which is offered by Sea Grant programs across the country. This program provides students with a paid internship that includes a stipend, housing, and travel, including Winter Workshop, American Fisheries Society in Atlantic City, Washington, and Senate, that generalize college students, interests, CAREERS, and students with professional development and career exploration opportunities. Students will be selected to exercise educational & scientific knowledge and skills from their school or family environment that they complete their summer.

Applications are due by 11:59 PM EST. Selected candidates will begin in early June 2022 (the August 2022 begin approximately). Applications will be accepted through Friday, April 1st, 2022.

The Summer Internships Grant Goal offers private-level fellowships, early career fellowships, research, and especially Sea Grant fellowship opportunities. Details about these opportunities are available online.

One of Pennsylvania's several state grants, Keep Old Creek State Park in Pennsylvania Beautiful, is a grant for the Pennsylvania Conservation Corps Application. This will be a unique opportunity to participate in with Pennsylvania State Park's only preserve, Wilkes City Creek, as well as build a brand new educational program for the park. Students will be responsible for developing a Pennsylvania Conservation Corps application with Pennsylvania State Park's Conservation and Interpretive programs, work with neighboring schools and districts, build partnerships, and develop a program that will include a variety of outdoor activities, a variety of regional and statewide educators and outstanding partners and partners, and provide a variety of outdoor activities.

If you know someone who might be interested in this position, please feel free to share it this is the 1st posting and approximate summer applicants is below. There is also an internal application for current Commonwealth or Pennsylvania employees.

Please, if you have questions, please feel free to contact Pennsylvania Sea Grant Coordinator Jon Kindle (kindle@psu.edu) or Assistant Sea Grant Manager Kaitlyn Cooper (kcooper@psu.edu) if they have questions or would like to know more! Position Description and Application Instructions are attached below. Thanks!

External: Environmental Educator Specialist (Wilkes City Creek State Park) - Job Details (Job Career Page: pennsylvania.jobs)

2022 Library Wallace Fellows Internship Application
Take this survey anonymously. Deadline for applicants to complete your survey is Friday, April 1st, 2022.
www.surveymonkey.com

SUMMER RESEARCH EXPERIENCEFOR FOR TEACHERS (Philadelphia of Pennsylvania)

I am writing to invite you seven of an excellent professional development program for Pennsylvania teachers. Teachers will be paid $1000 for participating in the program at Pennsylvania beginning in June 2022. Specific program dates are June 20th - July 29th.

The **Center For Engineering Mechanobiology (CEMB)**) is recruiting for its 2nd Summer Research Experience for Teachers to introduce high school science teachers to research in mechanobiology. Mechanobiology is the study of how cells sense and respond to forces resulting in cancer and other inflammatory diseases, along with various aspects of plant cell biology and growth. The program includes a week-long workshop focusing on mechanobiology research, laboratory safety, laboratory techniques, data analysis and interpretation activities, and hands-on lab work. The remaining 5 weeks involve teachers working in a research laboratory with a faculty member. Participating teachers are expected to develop lessons and activities that will be integrated into their teaching curriculum. Participating teachers will also be expected to attend a few meetings during the academic year, with additional financial stipend for such participation.

A description and the Online Application can be found on our website: (https://sites.sas.upenn.edu/cemb/summer-teacher-research-experiences) The application deadline is **April 15, 2022**.

I will be grateful if you will distribute the **attached program flyers** to your high school teachers and students. Please let me know if you have any questions about the program. I can be reached at arpandey@sas.upenn.edu

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PSSS STEM Fellows Teaching Program

The PSSS STEM Teaching Fellows Program is an intensive short-term teacher professional development series designed for **Pennsylvania with K-7** teachers. The program is offered at no cost to participants and includes a stipend and degree-free coursework and collaborative STEM PD opportunities. The Teaching Fellows will then produce and present a lesson plan which will incorporate these new skills and knowledge into their classroom. The program runs from June 6 - July 1 (Open Pool and Mini-Through) and May 2022. Applications are due **Monday, March 14** with decisions emailed by Thursday, March 30, 2022.

For more information and to fill out an application visit: https://www.pssscienceschools.com/STEM-Fellows

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Summer Research Opportunity for Teachers

Dear Colleagues:

Sarah Fisher, a national education leader with experience in STEM education and college, was national leaders in transforming STEM education and student success. These extraordinary scientists and leaders, each of whom has created major programs and institutions that have changed the landscape of STEM education, have made great strides and contributed to our society in ways that have made them leaders in change education and support diverse communities of students in pursuing STEM fields and careers.

Free Online Biology PD for High School Biology Teachers and Middle School Life Science Teachers

The University of Pennsylvania Biology Department is sponsoring a PD on Saturday, March 26, 2022. The PD will feature:

- **Understanding and Predicting Changes in Population Size - Exponential and Logistic Population Growth Models** (Dr. Jonathan Weitz)
- **Stability and Change in Biological Communities and Ecosystems** (or two activity which is not yet written) (TBD)

For more information and to register, please go to https://sites.google.com/sas.upenn.edu/pennbiology/home

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The Self Lab at Drexel University is hiring a Field Doctoral Research Fellow to serve as Project Coordinator/Data Manager on a newly awarded National Science Foundation Grant (Grant # 2142-1-1). The position is for a full-time Project Coordinator (see Scope of Work below) or STEM Lab (DSL) Grant Project Coordinator. Please go to the link for information: https://careers.drexel.edu/jobs/faculty-research-fellow

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Do you want to make an impact in the life of a student? Join the Spark Mentoring program at the Philadelphia Education Fund and work with a 2nd grade student in a little more context possible. One hour a week for 10 weeks is all it takes to join the ranks of fellow professionals from across the city mentor young students in the Spark program. Please contact Jessica Ortiz, Spark Program Director, with questions, interested mentors reach out to Sarah Clark at sparkmentor@pefund.org

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Teach Fish is a national education nonprofit that empowers students, entrepreneurs, and diverse teachers to take leadership over the policies and practice towards the preservation and restoration of our oceans, rivers, and lakes. Teach Fish is seeking to work with teachers in Pennsylvania to currently accepting applications for the 2023-24 Pennsylvania Teachers Fellowship. The Teach Fish Pennsylvania Teachers Fellowship is a year-long program supporting Pennsylvania teachers interested in learning more about the ecological and policy and impacts the oceans of teacher leaders in Pennsylvania.

We are hoping to recruit a diverse cohort of teachers across Pennsylvania, and we'd love your help with spreading the word to students of your programs who are the ideal candidates for this program. Teach Fish Pennsylvania Teachers Fellowship is a year-long program that includes teachers from, and for the attending a three-week in-person and one-week online Teach Fish Applicable plus planning this in-person and online Teach Fish Applicable plus planning this in-person and online

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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.

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Websites

Philadelphia Regional Institute for STEM Educators (PRISE): prisephilly.org

Understanding STEM Teaching Through Integrated Contexts in Everyday Life (USTRIVE): arcadia.edu/ustrive

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