

**Explore STEM Philly
2021-2022**

Explore STEM Philly (ESP) is an enrichment STEM program provided by the Philadelphia Education Fund (PEF). Its goal is to expand access to STEM education and career awareness among historically underserved student populations. Through ESP, PEF staff recruit, train, and schedule STEM professionals to provide 1-hour presentations in Middle and High Schools within the School District of Philadelphia. This year we are expanding ESP to Chester County. During the months of January - June we will be serving 300 classrooms with STEM Professionals

ESP Students:

- Middle and High School students within the School District of Philadelphia
- High School students within Chester County Technical College High Schools

Presentations Should Include:

- A description of how you became a STEM Professional, what you do in your current occupation, and the content knowledge and skillsets needed to do your job.
- Hands-on activities presented to and/or in which the students themselves participate.
- A variety of teaching tools such as PowerPoint presentations and interactive experiments.
- A focus on diversity in terms of job options, career paths, demographics, etc.
- Follow-up information such as suggested websites, events, and similar resources.

Effective Presenters:

- Explain rules and expectations ahead of time.
- Introduce themselves to the students (and vice-versa).
- Ask open-ended questions.
- Ask for volunteers to demonstrate activities.
- Provide individual and small-group exercises.
- Minimize (or define) jargon.
- Integrate lessons that promote reading, listening, doing ...
- Make the information relevant
- Ask for questions and comments

Program Logistics Include:

- Working with PEF staff to schedule presentations.
- Participating in an orientation webinar, scheduled once a month.
- Providing PEF staff with presentations at least one week prior to classroom presentation.
- Being prepared with a Plan B, in case technology fails the day-of.

Additional Details:

- All presentations take place during regular school hours.
- Presenters will agree and sign off on PEF's Volunteer Presenters Code of Conduct.
- You do not need to be an expert educator to provide students with a wonderful experience.
- Reliability and communication are critical. Contact PEF staff with any questions or concerns.