



## Driving STEM Forward

The Pennsylvania Society for Biomedical Research (PSBR) provides informal science instruction to students throughout PA, DE, and NJ. Our goal is to increase student learning and interest in science and related careers through access to real-world equipment, experiential curriculum, and modern technology that represent today's STEM professions and industries. We firmly believe that classroom instruction, combined with exploration-based informal science education will create engaged citizens and tomorrow's thought leaders. Through our science outreach efforts – including career fairs, science festivals, school assemblies, and classroom visits – PSBR has interacted with tens-of-thousands of individuals over the past 10 years.

But we want to do more! To this end, we've developed a novel Mobile Science Program we call **SPARC (Science Program And Research Coach)**. SPARC will allow PSBR to engage schools, communities, and OST programs with educational curriculum that contribute to the development of 21st century skills while strengthening the regional talent pipeline. Below we summarize the benefits of our SPARC program for students, teachers, and communities. We sincerely hope you will jump on board and join us on this unique and exciting adventure!

### For Students:

- ✓ Engage typically underrepresented populations with real-life science;
- ✓ Exposure to hands-on science activities;
  - ✓ Ability to perform authentic biomedical experiments and techniques;
  - ✓ Increased confidence in complex scientific concepts;
  - ✓ Career development and connections to real-world professionals; and
  - ✓ Awareness of well-paying, high-demand careers.



### For Teachers:

- ✓ Professional development on advanced biomedical topics for classroom consumption;
- ✓ Increase self-efficacy and confidence with modern concepts, theories, and equipment used by professionals in the biomedical and technology sectors;
- ✓ Increased awareness of well-paying, high-demand career opportunities; and
- ✓ Minimizing out-of-class time while maximizing student learning.

### For Communities:

- ✓ Development of a motivated and talented workforce possessing 21st century skills;
- ✓ Exposure to current biomedical advancements;
- ✓ Generation of informed citizens possessing the ability to engage in scientific conversations;
- ✓ Introduction to the importance and value of biomedical and animal research; and
- ✓ Opportunities for life-long learning.

#### The Pennsylvania Society for Biomedical Research (PSBR)

PSBR is a non-profit science education organization formed to foster a better understanding of the benefits of biomedical research.

Our SPARC program will bring hands-on science directly to the students in our outreach communities. For more information, or to support our program, contact:

[david@psbr.org](mailto:david@psbr.org) – [www.psbr.org](http://www.psbr.org)



**Educating future scientists - one student at a time**

