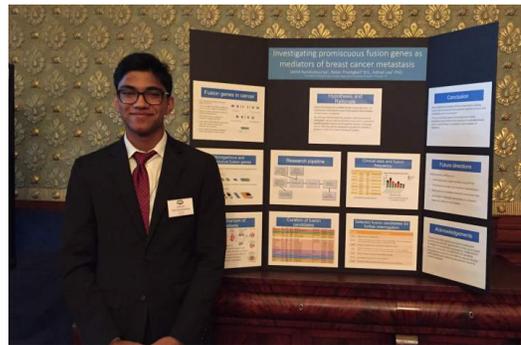




DBMI STEM OUTREACH PROGRAM

Science, Technology, Engineering, and Mathematics

In 2011, the University of Pittsburgh Department of Biomedical Informatics' Division of Pathology Informatics created a Science, Technology, Engineering, and Mathematics (STEM) pipeline to provide cutting-edge informatics research and career preparatory experience to diverse, highly motivated students.



The program introduces young scholars to informatics as early as their sophomore year of high school, continues scholar engagement throughout undergraduate years of study, and positions scholars to seamlessly transition to medical and graduate programs.

What our program offers

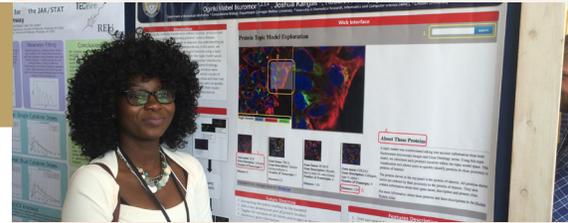
Scholars in our program have access to:

- Paid internships for a diverse group of students
- Authentic and cutting-edge research experience
- Mentorship from world-renowned faculty
- Academic and career development
- Sustained relationships among peers and the DBMI

Benefits of our outreach efforts

Achievements of former program scholars include:

- Enrollment in STEM fields as undergraduates
- Admission into renowned universities
- Authorship of journal articles
- Awards from prestigious associations and committees
- Presentations at national symposiums and summits



Program Highlights

■ CoSBBi

Part of the award-winning University of Pittsburgh Cancer Institute (UPCI) Academy, CoSBBi is a full-time, eight-week academy for high school students that offers hands-on mentored research and career development experience in the emerging fields of big data, computer science, biology, and biomedical informatics. Connect with CoSBBi by visiting www.facebook.com/CoSBBi.

■ CoSBBi Internship

As part of our commitment to mentoring scholars to career paths in the emerging sciences, students – both still in high school and in their undergraduate career – who have completed the CoSBBi experience have the option to advance to a paid internship for subsequent summers until they graduate from college.

■ iBRIC

The internship in Biomedical Research, Informatics, and Computer Science is a program for undergraduates from populations that are underrepresented in biomedical science. iBRIC is similar to CoSBBi, but is a 10-week professional and academic development program tailored to the education and experience level of program participants. Connect with iBRIC by visiting our page at www.facebook.com/iBRIC.

■ Innovation Internship

The innovation intern works in conjunction with DBMI and the Center for Commercial Applications of Healthcare Data. These undergraduate interns receive hands-on exposure to business development and technology transfer with a broad education in innovation and entrepreneurship with an emphasis on health care data.

QUESTIONS?

For more information about these programs or how to support our efforts, please contact Dr. David Boone at 412-648-7231 or dnb14@pitt.edu or Alan Friday at 412-864-5436 or ajf90@pitt.edu.

GIVING OPPORTUNITIES

The following examples highlight some opportunities for your philanthropic investment. We will personally work with benefactors to ensure that their support makes an important difference in the lives of our scholars.

Internships

Internships are a vital steppingstone in the trajectory of a student's career preparation. We want to ensure that our students can gain as much real world experience as possible, so we provide them with paid internships.

By doing this, we hope our students will be able to focus the majority of their time and energy on the program. Some topics our scholars have explored through internships include:

- cancer genomics
- precision medicine
- Bayesian modeling

Please consider making a contribution to ensure that our students continue exploring these important topics. By supporting internships, you are fostering hands-on learning and enabling professional development that our students can apply to their future careers.

Travel Expenses

You can choose to make a gift toward travel expenses for our students to attend and present at national conferences. By supporting participation at these prestigious academic meetings, you are helping our scholars further engage with and learn from like-minded peers and professionals.

Previously, our scholars have represented Pittsburgh at the White House Educational Conference and presented projects at national symposiums, including the American Medical Informatics Association's annual symposium for the past two years.

These experiences have allowed scholars to build their professional network, expand upon their knowledge, and gather resources to assist in the continuation of their studies and research. Your gift can guarantee future scholars are afforded these same opportunities.

Our mission: To elevate scientific research, critical thinking, and communication skills of a diverse group of highly motivated students, and to provide close mentorship throughout their academic pursuits to create a pipeline to undergraduate degrees and careers in STEM fields.



University of Pittsburgh

School of Medicine
Department of Biomedical Informatics

“Every day, I was surrounded by creative and intelligent students and mentors



who all supported and pushed me to do the most challenging, cutting-edge, and rewarding work I have ever done. After completing this program, I now have more experience and, consequently, a greater understanding of real-world science than a classroom could have possibly provided. Also, thanks to my research in deep learning applied to genomics at CoSBBI, I have had opportunities to continue my trajectory far beyond the scope of a single summer, and I believe this will greatly shape my future career.”

— Lukas Schmit
CoSBBI Scholar '15
CoSBBI Intern '16

GET INVOLVED

For more information about these programs or how to support our efforts, please contact the Department of Biomedical Informatics:

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