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ROBERT SCHOFNER

RESEARCH & ENGINEERING APPRENTICESHIP PROGRAM ALUMNI

I'm a rising high school senior hoping to major in Biology with a focus on Global Health when I graduate.

WORDS OF ADDICE

Be curious, be passionate. Through this and other AEOP programs, you will gain a deeper connection to your unique purpose. For me, authentic research is clearly a service for the common good.

BEST THINGS ABOUT THE PROGRAM

I had the opportunity to work as a microbiology research assistant in the Shaw Lab at the University of South Florida. There I researched the molecular mechanisms of disease causation in the major human pathogens that cause two thirds of all hospital acquired infections. Utilizing the research skills I cultivated as an apprentice, I produced and presented a scholarly academic paper to successfully complete my AP Capstone Research course (College Board Innovative Diploma Program) during my high school junior year. Evidence-based research in a laboratory setting truly offers a path to humility as it requires perseverance.

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HOW PARTICIPATING IN AEOP INSPIRED YOU TO ADDANCE IN STEM

My mentor, Dr. Lindsey Shaw, and the Infectious Diseases Society of America (IDSA) have made it clear that the development of a new drug to halt the spread of uncontrollable antibiotic-resistant pathogens must be a research priority. Thanks to AEOP, I was exposed to an area of study I now want to explore further. I am very interested in compounds that inhibit bacteria in a protective biofilm but are nontoxic to immune compromised humans. Essentially, I want to help discover and develop drugs to combat decades of overuse and misuse of antibiotic drugs. I can now see my future being tied to a career combating antibiotic-resistant bacteria and working in global partnerships supporting antibiotic resistant research efforts.

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