

Overview of Biotech Partners

Biotech Partners (BP) was founded in 1993 as a public-private career technical education program for low-income Berkeley High School students. In 1996, BP expanded to Oakland Unified School District and grew to serve qualified BP high school graduates in community college through its Bioscience Career Institute (BCI) certificate program. We currently serve 320 students at 4 school sites; Berkeley High, Oakland Tech, Antioch High, and San Marin High.

BP provides our high school Biotech Academy teachers with a science curriculum and training that emphasizes hands-on, lab based activities and current industry practices. BP supports students with intensive “wrap-around” services, tutors, and the science teachers with a teaching assistant to support the students to reach their goal of a paid internship.

Biotech Partners students are required to complete a rigorous in-classroom year-long approved course of study with a Grade of “B” or better in which they follow Good Laboratory Practices (GLP). Students will have completed professional development training as well as high school biology, chemistry, algebra and two semesters of biotech lab and academic studies.



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Technical knowledge and skills gained by the program participants:

- ✓ **Cell culture:** calculating molar solutions, serial dilution/percent yield, aseptic technique, cell counting and culture maintenance, cell staining, media preparation, aseptic technique
- ✓ **Molecular Biology:** ELISA, bacterial transformation, restriction enzyme digests, Polymerase Chain Reaction (PCR), DNA Electrophoresis, bioinformatics



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- ✓ **Chemistry/Biochemistry:** protein assays, chromatography, DNA/RNA extraction, buffer preparation, filtration, distillation, SDS-PAGE protein electrophoresis
- ✓ **Tools & Equipment:** balances, pipettes and micropipettes, hemacytometer, spectrophotometer, pH meter, incubators, electrophoresis equipment, PCR thermocycler, light microscope, micro-centrifuge, water baths
- ✓ **Additional training provided by BP:** GLP, computer skills, career skills (professional comportment, team work, communicating effectively), presentation skills

High School Summer Internship

BP facilitates *paid* internships for rising high school seniors and paid co-op jobs for our community college students. This gives BP students uncommon exposure to professional bioscience environments. Prior internships at Bayer Pharmaceuticals, UC Berkeley Labs, JBEI, EBMUD, USDA, Kaiser, Novartis, XOMA, Alameda Crime Lab, Libby Labs, and CHORI, to name a few, provides students an opportunity to apply the skills they have acquired in the classroom to the workplace while offering them new perspectives on their futures and deepening their incentive to succeed in high school and beyond.

Mentors Provide

- ✓ Development of the job description and/or work project.
- ✓ Attendance at an orientation on supervising an intern.
- ✓ Supervision to our student interns on the job.
- ✓ Oversight of the development of the intern's industry brochure.
- ✓ Support of the intern to develop their poster to present at BRAVO!

Benefits to the Mentor-Supervisor and Host Company/Institution

- ✓ Receive assistance from interns that have been trained to work in a laboratory setting and will bring value to your workplace.
- ✓ Supportive Biotech Partners staff who provide bi-weekly interface meetings with interns to ensure the intern's success for completion of the internship by providing ongoing job skills and professional development training.
- ✓ Gain personal satisfaction by contributing to youth and community development.

Benefits to Biotech Academy Interns

- ✓ Acquire knowledge of a variety of science-related industries such as biotechnology and research, pharmaceutical manufacturing, green technologies and health care, veterinarian hospitals and government labs.
- ✓ Understand how to prepare for future employment.
- ✓ Obtain hands-on lab and other work-related skills.
- ✓ Build confidence through setting and achieving personal and professional goals.
- ✓ Participants who complete both the high school and community college components are prepared for skilled entry level career-track jobs in the biotech, bioscience, healthcare and other science industries.

Intern Host Commitment:

8 weeks (June 14-August 5, 2018); 20 hrs/week.

Employer of Record:

Most industries pay the intern directly, however, should an industry not have the funding nor the human resource capacity to manage compensation and/or insurances, Biotech Partners can serve as the employer of record (payroll, payroll taxes, worker's compensation, insurance) through our Temporary Human Resources Agency.

Internship Time Line

Commitment Deadline:	February 2018
Interviews:	March-May 2018
Mentor Orientation:	May 2018
BRAVO! Event Celebration:	August 11, 2018

For more information, please direct inquiries to:

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