



SHELDON HIGH SCHOOL

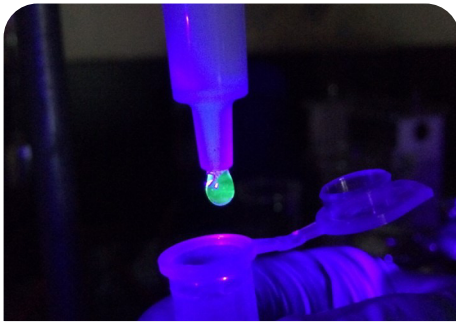
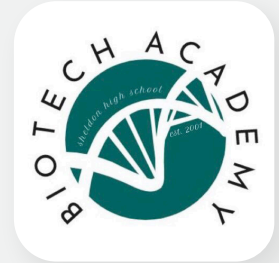
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https://sheldonbiotech.wixsite.com/shsbta | Instagram: @SheldonBTA



BIOTECH ACADEMY (BTA)

ABOUT THIS PATHWAY

The Biotech Academy is a California Partnership Academy that is tailored to meet the needs of all students by combining ongoing and direct contact with local and regional industries, blending academic instruction and meaningful work based experiences. Students learn advanced scientific concepts and cutting-edge lab skills that prepare them for both post-secondary education and employment in the current and emerging high-growth science career labor market. Through the direction and support from business and industry, the academy provides a powerful school-to-career educational experience for youth interested in science related occupations. Awarded the Distinguished Academy by the State of California, join us and turn your interests into a career!



"I just finished my 3rd year of med school, finished all of my clinical rotations and am now studying for my boards. I wanted to thank the Biotech Academy for stimulating my interest in science while I was in high school and acknowledge again that I would not be in the place that I am without it."

[Biotech Academy Alumni](#)

COLLEGE & CAREER PATHWAY

ENTRY LEVEL

Average Salary: \$37,878

- Community Health Worker • Biotechnology Assistant
- Laboratory Assistant • Respiratory Care Practitioner
- Medical Assistant • Physical Therapy Assistant • Pharmacy Aide

ASSOCIATE'S DEGREE/CERTIFICATION

Average Salary: \$65,543

- Biomedical Technician • Pharmacy Technician • Paramedic
- Radiology Technologist • Cardiovascular Technologist • Operating Room Technician • Certified Nursing Assistant • Emergency Medical Tech

BACHELOR'S DEGREE +

Average Salary: \$74,254

- Public Health Social Worker • Geneticist • Biomedical Chemist • Pharmacist & Pharmaceuticals • Physician • Nurse Practitioner • Dietitians and Nutritionist
- Biomedical Engineer • Epidemiologist • Biotech Technician • Pharmacist

EXPLORE YOUR FUTURE CAREER

PATIENT CARE



PUBLIC & COMMUNITY HEALTH



BIOTECHNOLOGY



HEALTH CARE ADMINISTRATIVE SERVICES



For more details and opportunities, scan the QR code.



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BIOTECH ACADEMY (BTA)

SHELDON HIGH SCHOOL



COMPETITIVE ADVANTAGE

INDUSTRY SKILLS

- Experimental Design, Data Analysis, and Communication
- Genetic Engineering and Bacterial Transformation
- Gel Electrophoresis, PCR, and ELISA
- Microscopy
- Media Preparation and Aseptic Technique
- Bioinformatics
- Plant Biotechnology

STUDENT ACCOMPLISHMENTS

- Mentor program with industry partner – Jr. Year
- Capstone project completed in teams with an industry mentor – Sr. year
- Create website or blog on Biotech-related topic
- Perform meaningful work-based learning experiments
- Use industry-based equipment
- Guest speakers and Field trips

INTERSHIPS

- SPARK Internship
- Shriner's Summer Youth Academy
- Jackson Laboratory Summer Program

COMPETITIONS

- UC Davis: Teen Biotech Challenge
- Sacramento STEM fair
- Science Olympiad

SEQUENCE OF COURSES

ALL COURSES ARE A-G

THE TECHNOLOGY OF BIOLOGY #04111
INTRODUCTORY

THE SCIENCE AND ETHICS OF BIOTECHNOLOGY HONORS #12671
INTRODUCTORY

MICROBIOLOGY HONORS #12672
CONCENTRATOR

MOLECULAR BIOTECHNOLOGY HONORS #12673
CAPSTONE



DISCLAIMER: The courses outlined above meet pathway requirements and are subject to change. This sequence does not list all courses needed for graduation.

BUSINESS & COMMUNITY PARTNERS

- UC Davis Biotechnology Program
- Bayer CropScience
- Vitalant
- California Northstate University
- JAX Laboratory
- Sacramento County District Attorney's Office Crime Lab
- Genentech
- California State University, Sacramento
- American River College
- California Institute for Regenerative Medicine
- Dignity Health, Methodist Hospital
- BETC (Biology Education to Careers)
- MOSAC Science Center (Formerly Powerhouse)



Sacramento County District Attorney's Office

seek justice. serve justice. do justice.



NON-DISCRIMINATION and ACCESS POLICIES | District programs and activities shall be free from discrimination, including harassment, intimidation and bullying based on a student's actual or perceived disability, gender, gender identity, gender expression, nationality, race, ethnicity, color, ancestry, religion, sexual orientation, age, marital or parental status, or association with a person or group with one or more of these actual or perceived characteristics. This policy applies to all acts related to school activity or school attendance occurring within a school under the jurisdiction of the District Superintendent. The Elk Grove Unified School District welcomes those with disabilities to participate fully in the programs, services, and activities offered to students, parents, guardians and members of the public. If you need a disability-related modification or accommodation, including auxiliary aids or services, to participate in any program, service or activity offered to you, please contact the Career Technical Education Department at 916-686-7709 at least 48 hours before the scheduled event so that we may make every reasonable effort to accommodate you. Government Code: Section 54953.2; Americans with Disabilities Act of 1990, Section 202 (42 U.S.C. Section 12132.)