
Biotech Career Pathway

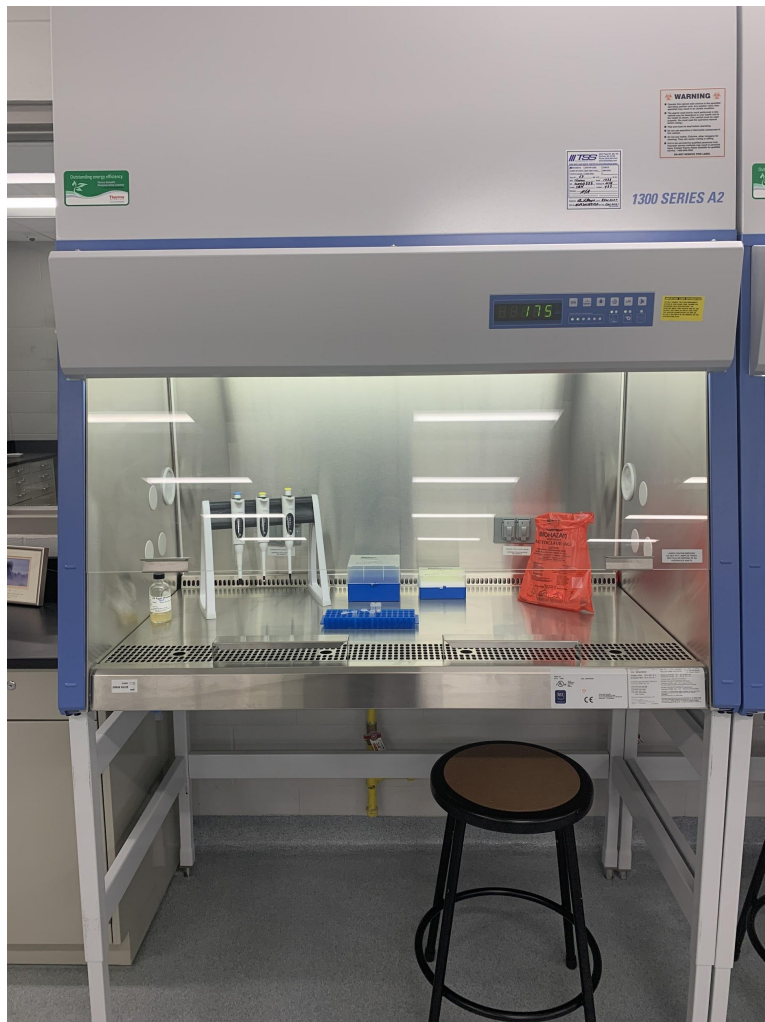
A plan to employ

Our big idea

Created in partnership with Ellyn Daugherty from San Mateo, CA, we have brought Wilson an innovative program to inspire students while giving them skills to earn more than just a liveable wage.



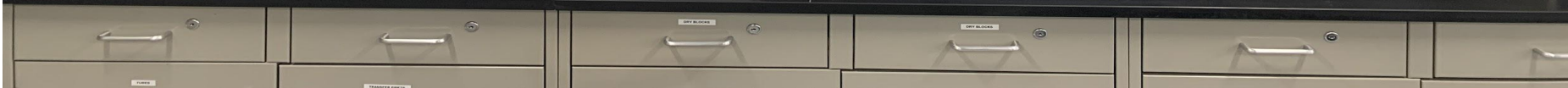
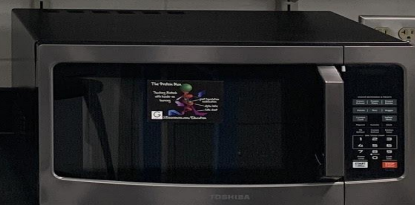






















1. Why biotech?

North Carolina, home of the Research Triangle...

- #1 in Biomanufacturing
- #1 in Pharma Manufacturing
- \$2 Billion dollar expansion in RTP
- Diverse skill set applies to many areas.

<https://edpnc.com/industries/biotech-pharmaceuticals/>

What can I do with a Biotech degree?

- Protein Safety Analyst
- Analytical Chemist
- Manufacturing Specialist
- Plant & Nursery Lab Assistant
- Microbiologist
- Teacher
- Forensic Analyst
- Science Writer



Did you know?

In 2010, I worked as an intern (lab assistant) for a contract pharmaceutical company. What was my pay scale?

\$10/hr... Six months later...

I was hired full time. The details are as follows:

\$36,000/year. Full benefits.

Medical was \$110/month w. \$750 deductible.

Including dental.

Spouse and children covered.



Did you know?

I have not been unemployed or made less \$\$ since I started in 2010...

Temp agencies will hire at \$18/hour plus benefits.

From day ONE, we start in the lab. Students will have **more hands on lab time** than all of their years in science combined.



Did you know?

These cities are overflowing with biotech companies:

Wilson, NC

Greenville, NC

Raleigh/Durham, NC



2. Opportunities

→ **Purdue Pharma**

With a high school degree this company hires if the person has lab experience.

→ **Merck**

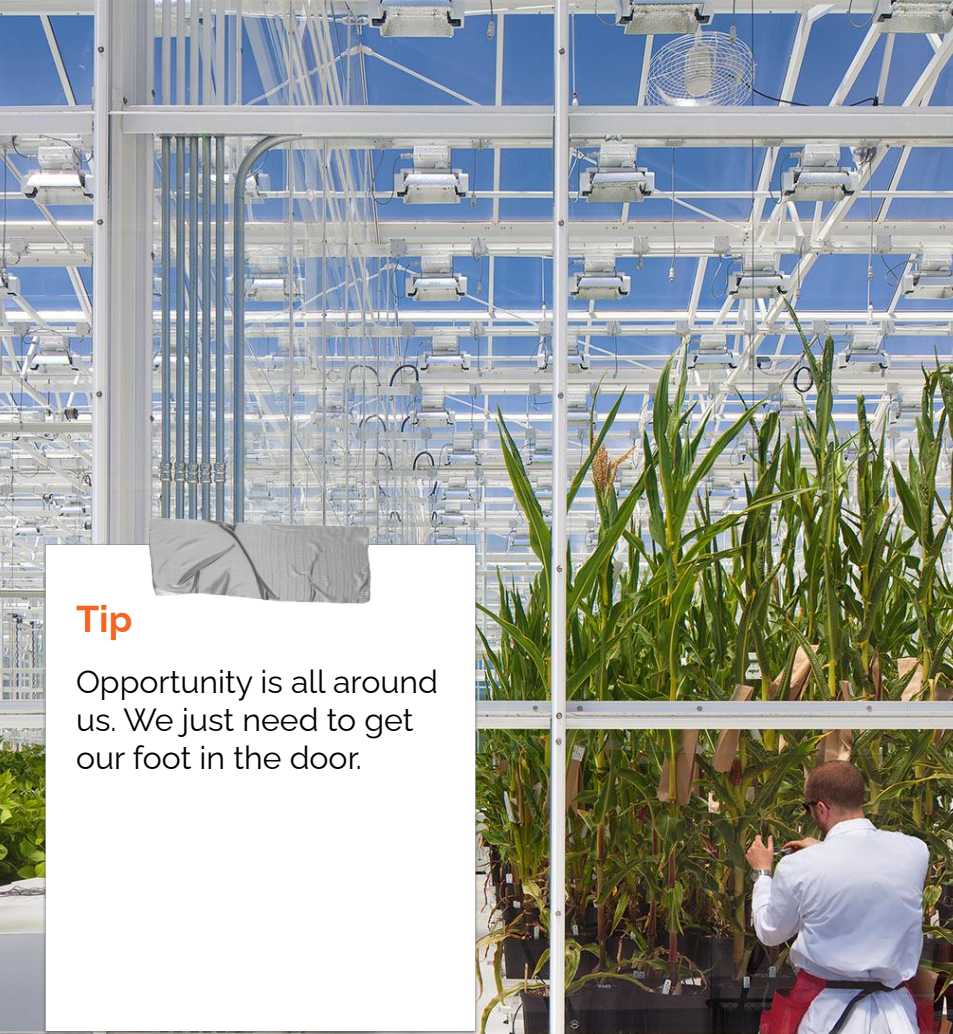
Not only a lab based facility, this company hires on the manufacturing side which requires knowledge of GMPs and GLPs. Our students study and enact these principles from day 1.

→ **Fresenius Kabi**

The leading manufacturer of a main COVID treatment, this company is expanding rapidly.

→ **Avient Biosciences**

The largest hemp research and extraction facility in Eastern NC.



Tip

Opportunity is all around us. We just need to get our foot in the door.

Let's go to Raleigh.

Syngenta is a science-based agtech company. They are a leading specialist in helping farmers around the world to grow safe and nutritious food.

Our biotech students grow and cultivate their own plants in Biotech 3.

Novozymes

Located in Morrisville, NC, this company specializes in enzyme development and enhancement.

Our biotech students are well versed in enzymes. Every semester we will work with these proteins to understand the handling and care of these delicate molecules.



Did you know?

Some of these companies prefer a 4 year degree, but they offer summer workshops for high school students and scholarships for STEM majors.



Did you know?

You don't have to take AP classes to be a scientist.

Knowing your way around a lab, a production line, a greenhouse, or even a microscope is enough.

After high school...

Our students will choose one of the following:

- Workplace
- Community College
- University



NC STATE UNIVERSITY





Scholarships

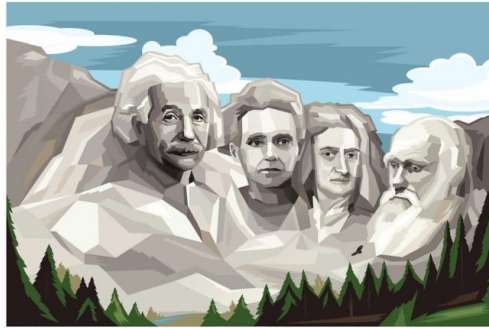
STEM majors really put the money on the table.

Science

Technology

Education

Mathematics



Einstein, Curie, Newton, and Darwin.

Show me the money!

- Univ. of Mount Olive - Syngenta offers \$20,000 for crop related majors.
- NC State University - Goodnight Scholars Program offers \$20k per year, renewable over 4 years for STEM majors.
- NC Central University - BRITE program offers full tuition assistance, renewable over 4 years for STEM majors.



3. Our Program

Four years of hands-on laboratory and business development.

→ **Year 1/2**

Students learn and perfect good laboratory practices required for industry. Students also learn the business of industry.

→ **Year 3/4**

Students develop and complete independent research projects as they prepare for their senior year internships. These students will be able to earn college credit at our neighboring community college.

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Students will have an opportunity to earn up to 8 high school credits and 6+ college credits.

There are **2 semesters** in their senior year for workplace experience.



You heard it right!

At this time, students will report to work for the semester rather than attending classes at SBH.

Sallie B. Howard Biotechnology Career Pathway



SBHBCP

Year 1

Biotech past & present:
basic lab skills, bioethics,
DNA & protein assays.

Year 3

Plant reproduction, plant
modification, and medicinal
discoveries.

Start here

Educate and specialize

Year 2

Assay development,
recombinant DNA, lab
instrumentation, product
pipeline studies.

Year 4

Genomics, proteomics,
independent research and
internships.



4. SBH is Biotech

→ **Enlighten**

Bringing the opportunity to YOU.

→ **Enrich**

Allowing students to take their future into their own hands.

→ **Empower**

Give our communities the skills and connections to make their own success story.

Sallie B. Howard Biotech

Enrollment starts now.

We are a free public charter school.

Looking for rising 8th and 9th grade students with an interest in STEM...

How can we partner with you to bring this program to your youth?