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# BioPath

## INTERNSHIP PROGRAM

Sponsored by  **AGC Biologics**

# Biotech Career Kick-Start Program

## Foundation of Biomanufacturing Certificate

Develop scientific and technical skills in the BioPath Internship Program for high school students and launch your career in biotech.

## About the BioPath Internship Program

The BioPath Internship Program for high school students provides a combination of theoretical training and hands-on floor work. Theoretical and practical activities include GMP basics/concepts, a general understanding of science (basics of cell growth, protein chemistry, chemistry, mass transfer), operations basics (media and solution prep, cell expansion, bioreactor operation, filter operation, ultrafiltration operation, chromatography, liquid handling), and planned experiments.

We offer hourly compensation and a **Foundation of Biomanufacturing Certificate**. High school and college credit is available through participating schools. The BioPath Internship Program includes on-the-job training and a potential full-time job offer upon high school graduation for qualified students who apply for full-time positions through our [job portal](#).

### MANUFACTURING



**Cell Culture** — This team cultures and maintains eukaryotic cells under controlled conditions in order to produce a specific target molecule.

**Manufacturing Support** — The responsibilities of this team may vary: solution compounding, analytical testing equipment sterilization, and sanitization.

**Purification** — This team ensures the separation of the target molecule in its desired form from impurities.

**Manufacturing Sciences and Technology** — This team supports the development of new equipment and continuous improvement.

### PROCESS DEVELOPMENT



**Cell Line Development** — This team uses molecular biology techniques to create cell lines that overexpress protein products for our clients.

**Upstream Process Development (UPD)** — This team optimizes the cell culture process to grow the cells and keep them healthy while producing the most protein possible at the highest quality.

**Downstream Process Development (DPD)** — This team takes the material from the UPD group and develops a purification process to separate the desired protein from all the other proteins and non-proteins.

**Process Transfer** — This team takes the process developed by UPD and DPD and transfers it to manufacturing – the ultimate goal of process development is to run the process successfully in manufacturing.

**Analytical and Formulation Development** — This team develops analytical methods to make sure the product is safe, pure, and effective.

### QUALITY CONTROL



**Quality Control** — This team conducts chemistry testing, environmental monitoring, microbial testing, reference standard, stability testing, and method validation.

**Quality Systems** — This team is responsible for audit management, change control management, corrective/preventative actions, deviations management, document management, and risk assessments.

**Quality Assurance** — This team focuses on continuous improvement, in-plant quality assurance, lot disposition, raw materials, and supplier quality management

**Validation** — This team is responsible for cleaning validation, equipment validation, process validation, and systems validation.



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### Candidate Profile

The BioPath Internship Program is similar to a trade school program, providing intensive training followed by the potential opportunity to launch a career in biotechnology.

#### THE IDEAL CANDIDATE:

- Unsure of plans immediately upon graduating and interested in a career after high school\*
- Has taken a chemistry class
- High school junior, going into their senior year
- Has the attributes outlined below

\*AGC Biologics offers a tuition assistance program to full-time employees.

### Candidate Attributes

**Kinesthetic learner:** does well in classes that require hands-on workshops or activities

**Dependable and reliable:** arrives on time and ready to work

**Team player:** participates in team organizations or activities

**Instruction follower:** ability to understand and follow instructions

**Detail oriented:** enjoys projects that involve complicated processes

**Good with documentation:** may do really well in chemistry lab or classes where documentation is required

**Careful worker:** works carefully and values a project that's done correctly rather than quickly

## Frequently Asked Questions

### Who should apply for the BioPath program?

If you are a high school junior looking to launch a full-time career in biotech after graduation, this is the program for you!

### Will I get paid?

Yes, this is a paid internship with hourly compensation.

### Will I receive school credit for this?

High school credit and college credit may be earned through participating schools. You will also receive a Foundation of Biomanufacturing Certificate.

### How long is the program?

#### What are the hours?

The program lasts one school year – the equivalent of 32 weeks. Interns work 2.5 hours per day, twice a week for a total of 5 hours per week. The workdays will be determined during the selection process.

### How can I apply?

Beginning April 1, 2021, you can apply through our job portal on our website at [www.agcbio.com](http://www.agcbio.com) – search for “BioPath.” Our recruiting team will set up interviews with the most qualified candidates. Interns will be selected in May 2021 for the fall 2021 semester.

### Do you have other questions about the program?

Read more FAQs at [www.agcbio.com/biopath-faq](http://www.agcbio.com/biopath-faq) or email us at [biopath@agcbio.com](mailto:biopath@agcbio.com). We want to hear from you!

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## Join Our Team

We will begin accepting applications for the Fall 2021 semester on April 1, 2021.

Visit [www.agcbio.com/biopath](http://www.agcbio.com/biopath) for more information.

## ABOUT US

AGC Biologics is a leading global contract development and manufacturing organization (CDMO), dedicated to the development and manufacture of biopharmaceuticals, from pre-clinical to commercial.

Our team is committed to helping our customers bring safe and effective biological products to market.

AGC Biologics is the product of the convergence and integration of Asahi Glass Company (AGC) Bioscience, CMC Biologics and BIOMEVA GmbH. Our global network spans three continents, with cGMP-compliant facilities in Seattle, WA; Copenhagen, Denmark; Heidelberg, Germany; and Chiba, Japan.

Today, our staff of more than 1600 dedicated employees is committed to providing solutions for more than 100 customers on five continents.

AGC Biologics is committed to ecological stewardship and support of the communities in which we operate. We are ISO 14000 certified to ensure that we have processes in place to measure and improve our impact on the environment.



# AGC Biologics

Right. On Time.

### AGC BIOLOGICS SEATTLE

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