



Bioprocess Engineer

Ayana Bio

Ayana Bio leverages plant cell biotechnology to produce bioactive ingredients that support health and wellness. Ayana Bio collaborates with global industry leaders in food & beverages, consumer-packaged goods, brands, supplements, specialized nutrition, animal care, and cosmetics to bring standardized plant and fungal bioactives to market. We provide consumers with confidence in quality and reliability. Ayana Bio has partnered with Ginkgo Bioworks, a synthetic biology platform company that is redesigning the living world to solve some of the globe's growing challenges in health, energy, food, material, and more. Ayana Bio is backed by Viking Global Investors and Cascade Investment to democratize nature's bioactives in a way that is standardized, safe, and sustainably sourced. For more information visit www.ayanabio.com.

General Role Description

This role is an integral part of the early team at Ayana Bio. We are looking for candidates who are driven to help shape Ayana Bio's technology and excited to support our mission of democratizing standardized and safe complementary medicine for consumer health and wellness.

You will focus on developing upstream bioprocesses to produce bioactives with targeted health functions. You will ensure the timely launch of Ayana Bio's technology. This role requires a versatile skill set, including expertise in upstream and downstream process design, cultivation of microbes and plant cells, technical project management, and communication. To thrive in this role, you should be a self-motivated problem solver who relishes the opportunity to create something new and important. This position is full-time and located in Boston, MA.

Responsibilities

- Drive development of upstream bioprocesses with a focus on plant cell lines
- Provide technical expertise and leadership and hands-on execution in planning, designing, and conducting experiments
- Work independently and design DOE experiments for cell line and process optimization and analyze results using statistical tools and software
- Work closely with Ayana Bio's platform team to match cell line specification with processing parameters and perform appropriate screening experiments
- Work with third party CROs and CMOs to complement in-house work and spearhead upscaling and tech transfer efforts
- Participate in downstream process initiatives within the process development team
- Create, execute, and manage workflows to support cell culture development and bioprocessing



- Support other areas within Ayana Bio, including process chemistry, engineering, intellectual property, strategy, regulatory, safety, product development, pilot scale manufacturing, and partnership development

Desired Experience and Capabilities

The successful applicant will have:

- A Bachelor's Degree (Fermentation Biotechnology, Biochemical Engineering, or related fields) and 6 years, or Master's with 4 years, or PhD with 2 years industry experience
- Extensive hands-on experience with setting up, operating, and maintaining state-of-the-art bioreactors, associated auxiliary and downstream equipment
- Experience with microbial cell lines, plant cell cultures, or mammalian cell cultures
- Problem-solving skills and the ability to keep track of multiple experiments
- An entrepreneurial spirit, capable of wearing multiple hats
- Excellent written and verbal communication and an ability to work across organizational boundaries
- Excellent data management and organizational skills (i.e., can stay organized and on top of key details that support plant cell line development and analysis)
- An interest in learning new topics quickly
- The ability to prioritize and pivot in a fast-paced environment
- Startup experience (preferred)

We also feel that it's important to state the obvious here: Our industry lacks diversity, and that needs to change. Our goal is to help drive that change. Ayana Bio is deeply committed to diversity, equity, and inclusion in all its practices, especially when it comes to growing our team. Our company fosters belonging and relishes the opportunity to work with people from all walks of life.

We are developing a powerful platform and must remain mindful of the many ways our technology can – and will – impact people around the world. We care about how our platform is used. Having a diverse team to build our platform gives us the best chance to create something we'll be proud of as it continues to grow. It is critical that we incorporate diverse voices and visions to create a more equitable future of biology.

It is the policy of Ayana Bio to provide equal employment opportunities to all employees and employment applicants.

Applying for This Position

Please send your CV to careers@ayanabio.com. Write "Bioprocess Engineer" in the subject line. You will receive an application form to fill out if you are selected for an interview. Thank you!