

AgBiome, a biotech company located in Research Triangle Park, North Carolina, partners with the microbial world to improve our planet. We develop innovative biological and trait products to enhance the global food production process and feed the world responsibly.

We are seeking curious, enthusiastic, and self-motivated individuals with strong emotional intelligence to work on several projects. We have a unique self-organizing culture and are looking for candidates that recognize the importance of successfully collaborating with others.

Available projects include:

1. Microbial colonization of plant roots

Refine and implement a technology to evaluate the colonization of AgBiome's lead microbes in soil, rhizosphere, roots, and other plant tissues. Other responsibilities may include, but not limited to, plant-microbe interaction, plant phenotyping in the greenhouse, image analysis, or/and plant responses to P fertilizer application based on the candidate's background and interests.

2. Microbial production of plant growth-promoting compounds

Work in the lab and greenhouse to understand and optimize key parameters during microbial growth and application to crop plants. Define requirements and conditions to enhance beneficial aspects of plant-microbe interactions. Previous experience with plant-microbe interactions preferred.

3. Fermentation lab

Primary responsibilities will be setting up and running fermenters (DASGIP parallel bioreactor system and/or Biolector Pro Microfluidic microbioreactor system) for optimizing microbial fermentation to produce biologicals, assisting in making media, aseptic sampling, and analyzing samples using Cedex Bio, Rebel AA etc. and data analysis. Experience with aseptic work and familiarity with work in a microbiology lab is preferred.

4. (Meta)Genome mining

Implement computational biology tools to extract and analyze genomic loci, including genes, biosynthetic gene clusters, and other genomic signatures, to develop hypotheses that predict biological activity and enable discovery. Previous experience with microbial genomics or metagenomics is preferred.

5. Gene discovery for pest control in target crops

Contribute to high throughput screen to identify novel genes for pest control. Primary responsibilities will be setting up and conducting the screen, which includes from preparing cultures and target indicator, conducting 96-well based bioassay, to recording the phenotypes and analyzing the results. Interest in biotech and previous training in biology is preferred.

6. Natural Product Discovery

Leveraging AgBiome's unique collection of over 100,000 fully sequenced diverse microbes, the chosen intern will establish and run High-Throughput Assay to discover bacteria-derived natural chemicals to fulfill AgBiome Future Sustainability Initiative; project activities include assay design/implementation, data capture and analysis. Requires curiosity, creativity and attention to details.

7. Spatial modeling plant disease with near- and long-term climatic conditions

Develop an understanding of how seasonal and yearly climatic conditions influences crop health in California and Florida. Using public and internal AgBiome data, build predictive models to estimate disease risk in commodity crops. Experience with coding and machine learning is preferred.

*Other opportunities may exist. Please inquire if your area of interest is not represented here.

Being You at AgBiome: We welcome everyone to apply, especially those individuals who are underrepresented in the industry - people of color, LGBTQI+ people, women, individuals with disabilities (both seen and unseen), veterans, people of any age or family status. We understand the value that diversity of thought and experience brings our company, and we strive to create a working environment that is inclusive, psychologically and physically safe, and ensures everyone can be heard and valued for their contributions. Just like in nature, we understand diversity makes us stronger and more successful, and we also know it takes an inclusive workplace with a strong sense of belonging to fully empower us.

Contact:

Intern Committee

AgBiome

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