

# Bioinformatics Engineer

AgriPlex Genomics is seeking a Bioinformatics Engineer with strong experience developing and maintaining bioinformatics pipelines to support AgriPlex's PlexSeq™ Genotyping Platform and future products. Projects will include participating in the development, testing, and improvement bioinformatics and data analysis workflows.

## Key Responsibilities:

- Design, develop and maintain scalable bioinformatics pipelines and data processing workflows.
- Collaborate with bioinformatics scientists, data analysts, and wet lab technicians to integrate bioinformatics analyses with laboratory workflows.
- Perform quality control, validation, and optimization of bioinformatics pipelines, ensuring comprehensive documentation for reproducibility and accuracy.
- Support the bioinformatics lead in developing and deploying bioinformatics tools and custom scripts using Python, R, or other relevant programming languages.
- Effectively communicate complex results and technical requirements to multidisciplinary teams and other bench scientists.
- Stay updated on the latest advancements in bioinformatics, particularly on NGS and genotyping technologies.
- Manage and deliver high-quality outputs across multiple bioinformatics projects, meeting project timelines and deadlines.

## Minimum Requirements:

- Master's degree in Bioinformatics, Computational Biology, or a related field, including 2+ years of experience in developing NGS analysis tools.
- Proficiency in Unix/Linux environments.
- Experience developing bioinformatics tools using Python and Bash scripting. Knowledge of R, Java, or other programming languages is preferred.
- Knowledge of machine learning algorithms and their application in bioinformatics analyses.
- Experience with bioinformatics workflow managers (e.g., Nextflow, Snakemake) and high-throughput data analysis.
- Strong communication skills and a proven ability to collaborate effectively with multidisciplinary scientific and technical teams.
- Demonstrated ability to manage and prioritize multiple tasks and projects in a fast-paced environment.

## **GENERAL JOB DETAILS:**

Location: Hybrid - Cleveland, OH 44106

Job Type: Full-time

Benefits:

- 401(k)
- Health insurance
- Dental and Vision insurance
- Paid time off

Physical demands:

- Prolonged periods of working at a computer

## **ABOUT AGRIPLEX GENOMICS:**

AgriPlex Genomics was formed in 2014 in Cleveland, Ohio, to create a targeted sequencing and genotyping platform for large populations that is accessible and affordable to the community.

Our multiplexed, Next-Generation PlexSeq™ platform provides simultaneous analysis of specific loci (25-5000) in any number of DNA samples. PlexSeq™ supports plant and animal breeders by greatly improving throughput and efficiency while significantly reducing costs.

AgriPlex Genomics partners with plant and animal breeders from the industry, academia, government, and non-government organizations, to provide crucial genotype data for the development of healthier and more productive crops and livestock.

<https://www.agriplexgenomics.com/>