



Data Scientist, Plant Omics

Location: San Carlos, CA

Company: Heritable Agriculture

U.S. work eligibility: Required

Heritable Agriculture is searching for a talented **Data Scientist** to join our interdisciplinary team and help build the future of sustainable agriculture. You'll be responsible for weaving together complex biological datasets to unlock the genetics underpinning crop performance. Your work will directly impact smallholder farmers by providing tailored crop recommendations and will drive our internal research by identifying key genes that control important traits. If you're an expert in plant multi-omics with a passion for applying computational genetics to real-world problems, we want to hear from you.

What You'll Do

Your core mission will be to synthesize and interpret multi-level biological data to generate actionable insights. You'll work at the crossroads of genomics, data science, and plant breeding.

- **Multi-Omics Integration:** Harmonize and analyze diverse datasets, including phenotypic, genotypic, and transcriptomic data collected from corn field trials and on smallholder farms.
 - **Prediction and Discovery:** Operate our proprietary phenotype prediction and gene discovery platforms to forecast crop performance and pinpoint the genetic basis of key traits like yield, drought tolerance, and nutrient use efficiency.
 - **Statistical Analysis:** Apply advanced methods in statistical and quantitative genetics on vast datasets.
 - **Generate Recommendations:** Translate your findings into practical, data-driven recommendations for crop varieties best suited to the unique environments of smallholder farms.
 - **Collaborate and Innovate:** Work closely with software engineers, breeders, biotechnologists, agronomists, and farmers to design experiments, interpret complex results, and contribute to our scientific strategy.
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Who You Are



You're a computational biologist with a deep-seated curiosity about plant genetics and a strong drive to make a tangible impact.

Required Qualifications:

- A Ph.D. in Statistical Genetics, Quantitative Genetics, Computational Biology, Plant Breeding, Bioinformatics, or a closely related field, or a M.S. with commensurate experience.
- Familiarity with modern sequencing technologies and the analysis of their outputs (e.g., RNA-seq).
- Deep expertise in plant multi-omics, with hands-on experience integrating and analyzing phenotypic, genotypic, and transcriptomic data.
- A strong background in statistical, quantitative, or computational genetics applied to agricultural species.
- Proven experience with analytical techniques such as GWAS, genomic prediction, and QTL mapping.
- Proficiency in a programming language for data analysis, such as Python or R, and experience working in a high-performance computing environment.
- A team player who loves to collaborate and is driven by mission and impact.
- Ability to relocate to the San Francisco Bay Area and work in the office at least 4 days per week.

Preferred Skills:

- Direct research experience with corn (maize) genetics and genomics is a significant plus.
- Exceptional problem-solving skills and the ability to think critically about complex biological questions.
- Excellent communication skills, with the ability to convey complex scientific concepts to diverse audiences.
- Experience developing and applying predictive models for multi-environment field trials.

To Apply:

- Send an email with your application materials to data-scientist@heritable.ag
- Review of applications will begin on October 31, 2025