

Data Scientist – Crop Modeling

At Monsanto, we're committed to helping the world's farmers produce more while using fewer resources. We are seeking an exceptionally talented individual with a passion for innovation to join our Environment & Spatial Analytics team within the Plant Breeding Organization. The position will be based in St. Louis at our corporate headquarters.

As part of our diverse, highly dynamic group, the successful candidate will be exposed to exciting research challenges and will have ample opportunity to work with interdisciplinary scientists to foster your career growth and development while delivering innovative solutions.

Responsibilities:

- Collaborate closely with data scientists, breeders, data engineers, and imagery scientists to provide data-driven solutions to business problems.
- Understand the core scientific questions and develop methodology to best address these questions.
- Apply machine learning or other computational approaches to develop, improve and scale crop models.
- Quantify and simulate interactions between genotype and biotic & abiotic environmental factors.
- Build effective relationships and partnerships with internal customers and stakeholders.

Required Skills:

- PhD in Computer science, Statistics, Engineering, Physics, Mathematics, or a related field. Or, a PhD and demonstrated experience with quantitative applications in Agronomy/Plant Sciences, Climatology, Geo-informatics, or related fields.
- Demonstrated experience using machine learning, data mining, simulation modeling, or statistical methodology to solve research problems.
- Proficiency in Python or R.
- Ability to rapidly learn new problem domains, and good decision-making and judgement skills.
- Ability to work in a large team as well as independently.

Desired skills:

- Experience with modeling crop development phases, growth and stress.
- Experience with geospatial and remote sensing data.
- Experience with cloud computing and virtualization technology.
- Strong publication record in leading scientific journals.
- Proven ability to communicate complex analytical problems in clear, precise and actionable manner.

If interested please contact Bob Zhou (xiaobo.zhou@monsanto.com).