Global Genotype × Environment × Management Scientist - St. Louis-MO-USA

Description

Monsanto Global Corn Breeding group is seeking a highly motivated individual with the ability and passion to work as a member of our Global Environment & Modeling Team. The candidate will work to improve our ability to develop and deploy superior commercial corn products by advancing the understanding of plot-scale testing environments and Genotype x Environment ×Grower Management Practices and developing tools that enable the organization to exploit this knowledge systematically.

Primary responsibilities are to

- quantify and classify plot-scale testing environments to enable environment-weighted breeding selections
- quantify plot-scale GxE×M interactions using state-of-the-art technologies
- determine the environmental correlations among testing fields/regions across the globe
- apply GIS, remote sensing, spatial statistics to improve global yield testing efficiency

The candidate will also establish and maintain appropriate linkages with other teams, particularly within the Global Corn Breeding Organization. Excellent communication and interpersonal skills are essential.

Qualifications

Requirements:

- PhD in Soil science, Environmental Science, or related disciplines.
- Strong background in GxE×M, statistics, environment modeling, GIS applications, and machine learning techniques.
- Excellent communication and interpersonal skills

Key Competencies

- Ability to work with team members as well as independently (“self-starter”)
- Results orientation with ability to deliver on short-term goals while simultaneously advancing longer-term strategy and goals.
- Leverage critical thinking to develop innovative analytical tools/analysis in this emerging area of environmental modeling

Preferred Skills/Experience

- Expertise in quantifying GxE×M
- Extensive experience in applying Statistical and machine learning in Agriculture
- Post-doctoral or applicable industrial experience is preferred

Job: Research & Development
Primary Location: North America-USA-Missouri-St. Louis
Organization: Global Corn Breeding
Schedule: Full-time
Contact: Nan Hong, Monsanto Company, nnhong@monsanto.com