The Climate Corporation Careers

Quantitative Researcher: Disease Risk Modeling

Science  •  Seattle, Washington

Description

Position Overview:
The Climate Corporation is looking for a quantitative scientist with strong data analysis and statistical experience to solve real-world problems related to disease risk modeling. We develop algorithms for statistical inference and simulation of disease risk. Our goal is to optimize disease management to provide sustainable yield protection for growers.

Active areas of research

- Development of risk models for plant diseases to help growers manage disease pressure on their fields
- Collaboration with domain experts to develop field experiments and to identify opportunistic sources of disease incidence data
- Ingestion, quality control, and analysis of weather data, disease incidence data, farm management practices, and remotely sensed imagery
- Application of natural language processing to opportunistic disease incidence data sources

What You Will Do:

- Develop cutting-edge, scalable models applied to real-world data for market-facing products and services
- Collaborate with an interdisciplinary team of software engineers, statisticians, pathologists and meteorologists to implement scientific algorithms in a research environment.
- Plan and execute original research projects in a dynamic, fast-paced environment
- Write robust, well-tested, well-documented code for numeric/scientific computing
- Clearly communicate results to stakeholders in various parts of the organization, including quantitative groups, business strategy groups and product managers

Basic Qualifications:

- Ph.D. in a quantitative discipline (e.g. statistics, biostatistics, physics, applied mathematics) or M.S. in a quantitative discipline with at least two years of applied work experience
- Experience writing code for data analysis in a modern programming language
- Experience with statistical computing for real-world observational data

Preferred Qualifications:

- Experience developing methodology for solving complex applied problems
- Experience with application of statistics to applied environmental or epidemiological problems
- Strong drive to learn new topics and skills, to develop innovative products for our customers, and build whatever is necessary along the way
- Ability to write well-structured, easily maintainable, and well-documented code
- Ability to communicate and collaborate as a member of an agile, inter-disciplinary team
- Strong record of developing and delivering top-quality analyses and modeling systems for customers and/or a strong publication record demonstrating the required applied expertise
- Expertise in cleaning, integration, and scientific analysis of large real-world datasets using languages such as R,
What We Offer:
Our team is composed of top statisticians, scientists and engineers. The environment is extremely engaging and fast-paced, with a diverse set of top agronomists, statisticians and engineers working together to provide the best possible products and experiences for our customers.

We provide competitive salaries, excellent medical benefits, and some of the best perks in the industry, including:

- Superb medical, dental, vision, life, and disability benefits
- We provide lunch, dinner and a large assortment of snacks and drinks to get you through the day
- Encouragement to get out of the office and into the field with agents and farmers to see first-hand how our products are being used
- Unique opportunity to make a real world impact - we are solving problems that have a massive impact on farmers’ lives and food security
- We strive for the highest quality in everything we do. From the precision of our agronomic models and the performance of our in-house databases, to the food we serve for lunch everyday; we are constantly refining and improving.
- We let you explore personally compelling topics by occasionally taking time to work on independent projects
- We regularly host meet-up groups and tech-talks and encourage participation in relevant workshops and conferences
- 401k matching program

About Us:
The Climate Corporation, a division of Monsanto Company, aims to help all the world's farmers sustainably increase their productivity through the use of digital tools. The integrated Climate FieldView™ digital agriculture platform provides farmers with a comprehensive, connected suite of digital tools. Bringing together seamless field data collection, advanced agronomic modeling and local weather monitoring into simple mobile and web software solutions, Climate FieldView™ Prime, Climate FieldView™ Plus and Climate FieldView™ Pro give farmers a deeper understanding of their fields so they can make more informed operating decisions to optimize yields, maximize efficiency and reduce risk. For more information, please visit www.climate.com or follow the company on Twitter@climatecorp.

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