Bioinformatics-Scientist II

Bayer CropScience (BCS), an Equal Opportunity Employer, is a subgroup of Bayer AG. It is one of the world's leading innovative crop science companies in the areas of crop protection, non-agricultural pest control, seeds and traits. The company offers an outstanding range of products and extensive service backup for modern, sustainable agriculture and for non-agricultural applications. Bayer CropScience has a global workforce of 20,700 and is represented in more than 120 countries.

Bayer's corporate culture is an important factor in the company's success. Central to this culture are our values: Leadership, Integrity, Flexibility and Efficiency, summarized by the term LIFE. They provide us with guidance for our daily work as we seek solutions to the major challenges of our time, in line with our mission statement "Bayer: Science For A Better Life".

Job description The primary responsibility of this role is to use bioinformatics tools, algorithms and databases to discover novel genes from microbes that will improve agronomic performance and value in key crops including soybean, cotton, wheat, corn, canola, rice and wheat. These traits include but are not limited to pest control, herbicide resistance, disease control and plant growth/yield. A desirable candidate will incorporate their high level of knowledge of molecular biology, bacterial, insect, and plant genomics along with bioinformatics to find biologically relevant solutions. In addition, the candidate will be responsible for interacting with third party software developers to manage the further development and maintenance of our widely utilized custom trait discovery and management system.

The incumbent will:
• Utilize bioinformatics tools to analyze NGS data from various microbial genomes to identify novel trait genes of interest, validate gene sequence using molecular biology tools, and analyze genes using various software programs;
• Proactively identify and incorporate commonly-used and latest bioinformatics techniques to manually analyze or automate the analysis of microbial genes and extend the features of existing tools and analysis pipeline;
• Manage NGS data and analyses using structured flat file systems, relational and non-relational databases;
• Participate in a multi-disciplinary team of scientists to offer bioinformatics, genomics, transcriptomics and other -omics solutions for the discovery of input trait genes;
• Development and improvement of a custom trait discovery and management system by:
1. writing functional specifications with feedback from scientists;

2. communicating with wet-lab scientists and software developers;
3. offering solutions to potential software development bottlenecks to ensure project timelines are met.
• Communicate effectively through documentations and presentations using compelling visualization tools to share analysis.

Your qualifications The selected candidate is required to possess the following:
• M.S. (3 years' experience) or PhD in genetics, molecular biology, microbiology, bioinformatics, or related field;
• Demonstrated ability to analyze genomic sequencing data and expertise in various sequence analysis software programs such as NGS assembly programs, etc;
•Hands-on experience and expertise with recombinant DNA technologies including PCR, primer design, gene cloning and library construction;
•Previous experience working with relational databases (SQL) for the management of -omics data and analysis;
•Familiar with commercial bioinformatics tools and high level of interest to train non-bioinformatics scientists;
• In depth familiarity with various public genomic databases, bioinformatics algorithms, and statistical software tools and packages such as R;
• Fluent in scripting languages (e.g. Python, Perl, Ruby, and/or Javascript) to handle and manipulate large data sets;
• Sufficient knowledge of the development cycle and management of web-based applications;
•Experience working in a high-throughput research environment and the ability to adapt to a fast-paced atmosphere;
• Outstanding listening and communication skills and the ability to work in a team environment;
• Excellent verbal, written, and presentation skills.

Preferred qualifications:
• Previous laboratory experience, particularly in bacteria, plant and insect genetics;
• Experience working in agricultural biotech;
• Previous interactions with software development firms.

*Salary and grade level will be commensurate with experience and/or education level.

Your application We offer a wide variety of competitive compensation and benefit programs. In addition to a competitive base salary, you will be eligible for an array of innovative rewards and recognition programs, variable pay and incentive opportunities as well as benefits coverage beginning on your first day of employment. We are committed to helping our employees maintain a healthy balance between their responsibilities at work and home. You will be eligible for paid time off programs, paid company holidays, flexible work options and numerous site conveniences. We are also committed to supporting your professional development through career ladders, training programs, tuition assistance and professional association events.

If you meet the requirements of this unique opportunity, we encourage you to explore how you can make a difference at Bayer by applying now.

To all recruitment agencies: Bayer does not accept unsolicited third party resumes.

www.career.bayer.us **Phone +1 877 229-3727**

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