

BIOINFORMATICS SCIENTIST

Bioinformatics scientists use technology and computer science to study and find solutions in the area of biology. They use databases of genetic information to find ways to identify and treat human, animal and plant diseases and other issues.

WHAT RESPONSIBILITIES WILL I HAVE?

- Identify and develop software tools for efficient data integration and for mining diverse types of biological data
- Collaborate closely with scientists from a variety of disciplines, including microbiologists, computer scientists, and plant biologists to identify opportunities for accelerating product development
- Build innovative frameworks for data integration and automated data mining
- Develop reusable libraries and implement best coding practices to build and continually improve the company's computational capabilities and workflows
- Apply computer tools to transform genomics data into higher yielding crops and pest control solutions
- Share modern computational methods and bioinformatics solutions within the company and outside if not proprietary
- Work closely with end users to identify, analyze, and solve bioinformatics resourcing and application
- Translate data into competitive knowledge by providing a relevant and innovative bioinformatics analysis to meet the needs of crop genetics and other scientists within breeding & trait development
- Propose and implement novel bioinformatics analysis strategies adapted to analytical needs
- Report progress in relation to objectives, critical milestones to program leaders
- Ensure compliance with all existing safety standards in the area of responsibility taking into account laws, regulations and directives and evaluate potential risks of the research activities



WHAT EDUCATION & TRAINING IS REQUIRED?

A Master's degree in genomics, bioinformatics, computational biology or a related field is required

THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, computer courses, chemistry, biology, physics, advanced mathematics

TYPICAL EMPLOYERS

Work in research for a variety of industries, predominantly human health, biotechnology and crop sciences

FUTURE JOB MARKET/OUTLOOK



SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- American Society for Clinical Laboratory Science
- Laboratory Safety Institute
- The Bioinformatics Institute

AVERAGE ANNUAL FULL-TIME SALARY

\$68,000