

# GEOSPATIAL ANALYTICS SCIENTIST

A geospatial analytics scientist assesses, integrates, manipulates and extracts data from GPS and other databases to improve software platforms used in precision agriculture.

## WHAT RESPONSIBILITIES WILL I HAVE?

- Apply in-depth familiarity of geospatial intelligence and multi-spectral images to provide analytic support including the planning, preparation and maintenance of maps and geographic representations to display layers and data attributes using mapping techniques
- Work with IT and other scientists to develop software platforms that enable cutting-edge research and development to revolutionize plant breeding and biotechnology
- Develop research strategies for discovery projects in precision agriculture platforms
- Utilize the latest mathematical innovations to propose software solutions that accommodate emerging trends in data quantity and quality
- Design and test algorithms and conduct prototyping to evaluate possible scenarios leveraging computational and statistical techniques for the development of novel approaches for high-throughput data analyses
- Works collaboratively with interdisciplinary scientists internal and external to your company
- Organize challenging problems
- Develop new solutions utilizing mapping technologies



## WHAT EDUCATION & TRAINING IS REQUIRED?

Master's degree in agricultural or civil engineering, computer science, or geographic information systems

## THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, high level mathematics, biology, geography, computer courses

## TYPICAL EMPLOYERS

Government agencies, agricultural companies with precision agriculture platforms (equipment manufacturers)

## FUTURE JOB MARKET/OUTLOOK



## SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- Coalition of Geospatial Organizations
- Geospatial Technologies Project
- Urban & Regional Information Systems Association

## AVERAGE ANNUAL FULL-TIME SALARY

\$71,000