

AG TECHNOLOGY

AgCareers.com developed career profiles for high demand jobs in the agricultural industry. These career profiles are a helpful resource for students and job seekers to explore new roles in the industry, as well as for career educators.

Geospatial Analytics Specialist

JOB OVERVIEW

Assess, integrate, manipulate & extract data from GPS and other databases to improve precision agriculture

Work with IT and scientists to develop software platforms that enable cutting-edge research

Plan, prepare & maintain maps & geographic representations

Design & test algorithms and conduct prototyping to evaluate possible scenarios

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Master's in agricultural engineering, civil engineering, computer science, or GIS

RECOMMENDED H.S. COURSES

Ag education, mathematics, computer courses, geography, biology

TYPICAL EMPLOYERS

Government agencies and agricultural companies with precision agriculture platforms

Information Technology Analyst

JOB OVERVIEW

Support the analytical needs of a business through the analysis of moderately complex system data & summary reports

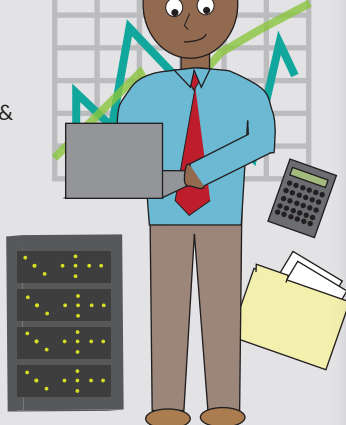
Derive conclusions & summarize actionable insights for specialty area

Design & prep various reports, charts & graphs to depict trends

Drive value from existing IT applications through data availability & other means

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's in an IT field

RECOMMENDED H.S. COURSES

Ag education, advanced mathematics, computer courses

TYPICAL EMPLOYERS

Agricultural companies with major technology systems and needs

IT Mobile App Developer

JOB OVERVIEW

Design, build, test, produce & improve mobile apps

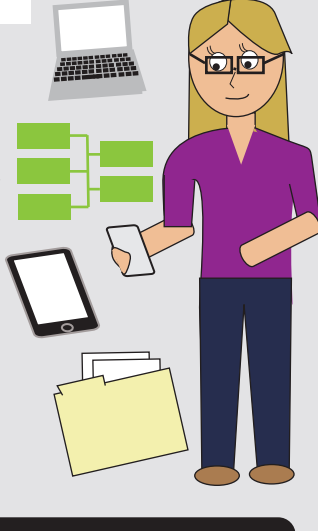
Create visually appealing as well as intuitive user interfaces

Analyze, review & assess user requirements, specifications & models for understanding user needs

Handle support & documentation of the mobile applications created; troubleshoot & implement testing solutions

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's degree in computer science, information systems, MIS, information technology, or software engineering

RECOMMENDED H.S. COURSES

Ag education, computer courses, mathematics, art

TYPICAL EMPLOYERS

Medium to large-scale agricultural companies of varying types

IT Configurator

JOB OVERVIEW

Serve as a consultant specializing in the configuration of large software products

Prepare gap analysis on one program version to the highest version

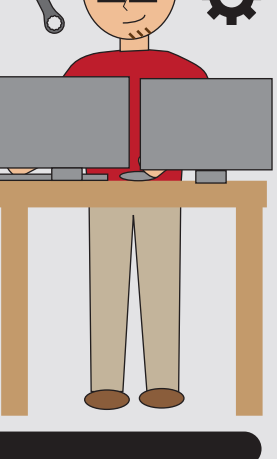
Configure various modules to meet specific business requirements

Design & develop interfaces, reports & forms

Test & upgrade software

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Master's degree in computer science or computer engineering

RECOMMENDED H.S. COURSES

Ag education, computer courses, mathematics, coding

TYPICAL EMPLOYERS

Any one of a variety of companies require advanced IT assistance in managing their operating systems

IT Programmer

JOB OVERVIEW

Analyze to ensure that writing, testing & maintenance of computer programs meet user needs

Design all or part of an information system

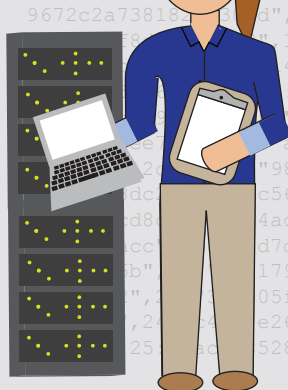
Define & incorporate system security & control procedures to protect data

Create & maintain documentation for code and/or configuration

Ensure testing of programs meet accepted criteria

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Associate's or bachelor's in computer science or information systems

RECOMMENDED H.S. COURSES

Ag education, computer courses, mathematics

TYPICAL EMPLOYERS

Medium to large-scale agricultural companies with both internal & external software maintenance needs

IT Software Developer

JOB OVERVIEW

Create programs for computers or other devices that fill a specific need or niche

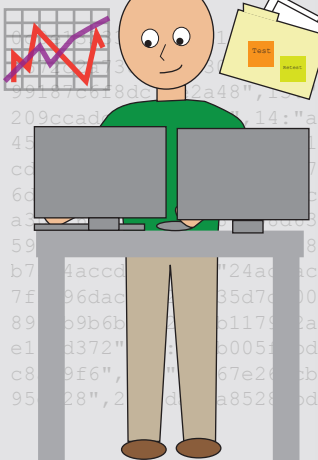
Provide technical & systems design expertise as well as ongoing production support

Install & test software

Promote agile practices such as continuous integration, paired programming & cross-functional development within the team

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's in computer science or computer engineering

RECOMMENDED H.S. COURSES

Ag education, computer courses, coding, mathematics

TYPICAL EMPLOYERS

Agricultural companies that provide software solutions to producers/end users will hire to create & maintain programs

IT Specialist

JOB OVERVIEW

Serve as support to branch offices on all phases of technology use by employees

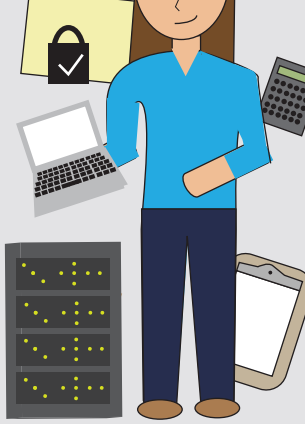
Assist in administering & maintaining technical infrastructure as well as security, hardware & more

Perform maintenance & troubleshooting on company computers

Install & support software programs & provide training

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's in information technology, computer science, or related field

RECOMMENDED H.S. COURSES

Ag education, computer courses, coding, mathematics

TYPICAL EMPLOYERS

Small to large companies with any sort of technology need or computing systems requiring assistance

IT Web Developer

JOB OVERVIEW

Build & maintain a website to fit the needs of the company or customer using layout & coding

Utilize XML tools & technologies

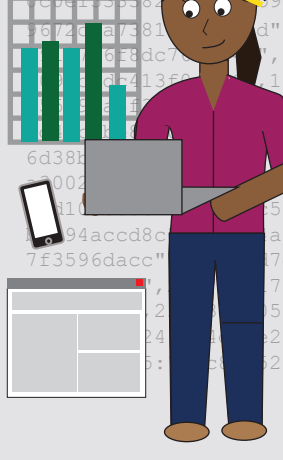
Analyze database integration from web environments

Modify & document web code to correct errors or to enhance a program's capabilities

Plan, direct & execute measurable & continuous improvements

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's degree in information technology, computer science or related field

RECOMMENDED H.S. COURSES

Ag education, computer courses, coding, art, mathematics

TYPICAL EMPLOYERS

Medium to large agricultural companies, PR firms, software developers, or may be self-employed

Precision Ag Specialist

JOB OVERVIEW

Provide support & technical assistance to growers using precision technologies on their farms

Implement actual work of grid & contour differential global positioning systems for soil sampling, information maps & more

Locate fields by legal land descriptions & perform soil sampling

JOB OUTLOOK

POOR FAIR GOOD GREAT EXCELLENT



EDUCATION NEEDED

Bachelor's in ag engineering, agronomy, or agribusiness

RECOMMENDED H.S. COURSES

Ag education, biology, chemistry, computer courses, mathematics

TYPICAL EMPLOYERS

Precision equipment/retailers, cooperatives, and extension

PROFESSIONALS IN AG TECHNOLOGY CAN EXPECT TO EARN AN AVERAGE OF \$74,300 PER YEAR