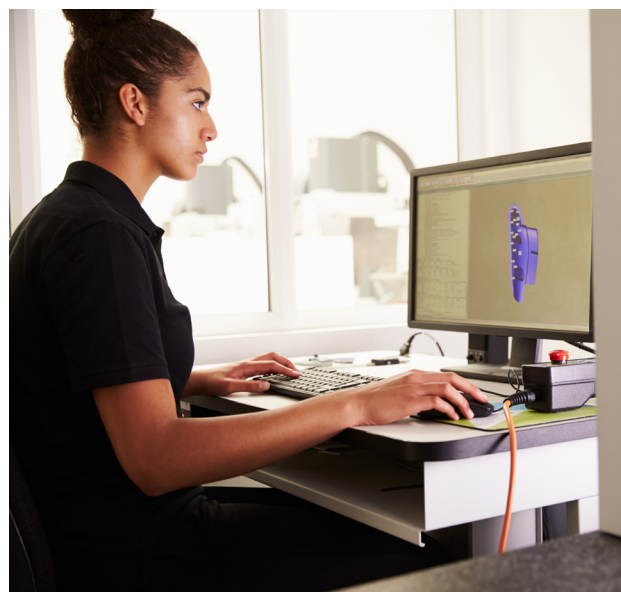


DESIGN ENGINEER

A Design Engineer designs and develops agricultural equipment and system products and serves as a technical resource by participating in design reviews and providing input of new projects.

WHAT RESPONSIBILITIES WILL I HAVE?

- Design major components and/or subsystems
- Develop and evaluate product designs based on customer needs, manufacturability, cost, and safety
- Develop design specifications, collaborating with product management, sales and marketing, manufacturing, product development, testing, and customers for projects assigned
- Develop test plans and direct testing of the design
- Ensure all requirements are completed to meet prototype and test schedules
- Set product quality and tolerance specifications for designs
- Design and/or select hydraulic, power transmission, and structural components needed to implement design
- Perform engineering design calculations
- Operate design software to design, layout, produce drawings, and develop bills of materials
- Work with manufacturing to develop tooling and new manufacturing processes as assigned
- Develop high level understanding and knowledge of company products
- Remain abreast of new products, technologies, materials, construction methods, testing procedures, and competitive equipment in industry
- Participate in product design reviews and provide input on design based on experience and knowledge
- Provide technical support as needed to purchasing, suppliers, manufacturing, dealers, and customers



WHAT EDUCATION & TRAINING IS REQUIRED?

Bachelor's degree in agricultural or mechanical engineering; knowledge in steel fabrication, welding, and machining also beneficial

THE FOLLOWING HIGH SCHOOL COURSES ARE RECOMMENDED...

Agricultural education, agricultural mechanics, welding, industrial technology, computer courses, and advanced mathematics

TYPICAL EMPLOYERS

Agricultural equipment and systems manufacturers

FUTURE JOB MARKET/OUTLOOK



SUGGESTED PROFESSIONAL ORGANIZATIONS & ASSOCIATIONS

- The American Society of Mechanical Engineers
- Institute of Industrial and Systems Engineers
- Farm Equipment Manufacturers Association

AVERAGE ANNUAL FULL-TIME SALARY

\$68,000