



Welcome to John Deere, the leading manufacturer of agricultural, forestry, construction, lawn and grounds care equipment supported by comprehensive parts and financial services solutions. With around 73,500 employees worldwide, we generate total sales of \$39 billion. Join us and be key in managing the biggest global challenge: supplying 7 billion people with food, clothing and infrastructure.

The Intelligent Solutions Group (ISG) of John Deere in Kaiserslautern develops future trends and technologies in the area of mobile agricultural and construction machinery in cooperation with different research centers. In addition, ISG develops and sells products and services in the area of precision farming using global satellite based navigation systems (GNSS), automated steering systems, machine automation, sensor technologies, telematic system solutions, web applications as well as apps for mobile devices to optimize farming processes and to support decision making.

We are looking for smart talent in the area of machine automation. You will be a member of a team doing research and innovative technology product development for machine, product or agriculture/turf applications.

Therefore, starting March 2021 the Intelligent Solutions Group is looking for smart and creative talents who wants to write a Bachelor thesis in the area of

### **“Machine and Implement automation”**

Your work does directly contribute to the development of machine automation and optimization of applications in the area of agricultural. Definitions or enhancements of new or existing system solutions as well as the setup of prototypes and testing using new technologies under John Deere development processes is part of your work.

#### **Aim of work**

Main attention of this work is the practical investigation and evaluation of the combination of existing applications for further optimization agricultural applications as well as the setup of prototypes to validate them. Furthermore, the work can also include aspects of actuator or sensor selection based on predefined targets. The execution of test scenarios for data recording and the evaluation and documentation of the test results is another aspect of the work.

#### **Work Packages**

- Literature and IP research (Optionally)
- Combination of different existing technology solutions to further optimize/automate certain agriculture field operations
- Definition of different test setups/configuration and their execution
- Research on solutions to further automate and optimize applications including the definitions of potential prototype solutions
- Documentation of the work
- Presentation of the results

#### **Your Profile/Qualifications**

- Student (m/w/d) in the area of Agricultural Sciences, Mechanical or Electrical Engineering, Informatics or Automation
- Good technical and systems knowledge in the area of automation
- Experience in farming operations
- Farm knowledge, English language skills would be an asset
- Car and tractor driver license (B, BE, T)

Do you want to discover diverse facets of a globally successful producer of agricultural machinery and to get to know its organization and processes? We look forward to your online-application with complete documents attached:

- Examination and study regulations or regulations for practical semesters that tell that you do a mandatory internship
- Information about period of time (study regulations)
- Curriculum vitae
- Current overview of grades
- relevant certificates

We look forward to your online-application via our application portal!  
This is not what you are looking for? Sign in for our job agent!



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