Student Assistant (m/f/d) Development of an energy transition simulation game

TECHNISCHE UNIVERSITÄT DARMSTADT

EINS
Energy Information Networks and Systems

Start: As soon as possible

Job description

As part of the module "Energiewende gestalten", we developed a simulation game that allows students to experience the energy transition in an interactive way. Students can explore the energy transition from multiple angles by taking the perspective of four different key actors: Energy Provider, Industry, Consumers, and Politics. The game is available as a web-based application compatible with most modern web browsers. It supports simultaneous play on multiple devices and allows for running multiple games concurrently. We are now looking for a student assistant to maintain and further develop the game. The focus will be on ensuring a stable client-server communication.

Responsibilities

- Maintain and develop the energy transition simulation game
- Write clean and maintainable code in JavaScript
- Ensure a stable client-server communication
- Implement new features and functionality as per project requirements
- Test and debug the application to ensure its reliability and quality
- Use Websockets, SQL, Git and other relevant tools to support the development process

Requirements

- Experience in web development with a focus on JavaScript
- Familiarity with Websockets, SQL and Git
- Ability to improve and debug existing code
- Strong attention to detail and commitment to delivering high-quality work
- Ability to work independently and manage time effectively

Duration and working hours

The position is initially limited to a period of three months and will start with an introduction to the existing project. However, we are aiming for a longer-term employment if the candidate suits the position. In this case, the higher hourly rate for student assistants can be offered. Working hours are flexible and open to negotiation, with an anticipated workload of 20-30 hours per month.

Contact

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