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R&D-Division: Energy
Group: Automation, Communication and Control

Contract duration: 3 months
Start: immediately or in consultation

Research Assistant (f/m) Development of SESA Lab Components Catalog

OBJECTIVE:

In the Smart Energy Simulation and Automation Lab (SESA Lab), an environment is established to test concepts for system integration and management under uncertain communication and information conditions in digitalized energy supply systems. It combines techniques for hazard identification and analysis of smart grid architectures with methods for detecting anomalies. The laboratory purpose is to develop preventative security and resilience measures, but also to develop and test reactive measures for the rapid detection and handling of physical- and cyber- induced incidents in electric power systems.

YOUR TASKS:

We search support for the development of a catalogue of the Smart Energy Simulation and Automation Lab (SESA Lab) components. The catalog's goal is to enable researchers to explore the laboratory components (hardware and software), to ease tools selection for research proposals development, experiments planning, and problems solving. The tasks include:

- ▶ To explore and map database requirements.
- ▶ To implement the database and its visualization tools in a Wiki and a Webpage, including search and filtering mechanisms.
- ▶ To develop the utilization procedures, such as maintenance and update.
- ▶ To produce all the related documentation.

YOUR PROFILE:

- ▶ Initial experience with databases and Database Management Systems, such as PostgreSQL.
- ▶ Initial experience with Wiki and Web Front End
- ▶ Capacity to solve problems and to work independently.
- ▶ Possible a bachelor or master student.

WE OFFER YOU:

- ▶ Possibility to work up to 20 hours a week for 3 months.
- ▶ Flexible working time.
- ▶ To work together with international Researcher in European Projects.
- ▶ A pleasant and interesting work environment in a dynamic institute with an international focus.
- ▶ Company culture characterized by tolerance and openness
- ▶ Persons with disabilities who are severely handicapped should be given special consideration.



CONTACT: Please send your application to: bewerbung@offis.de

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