

Position:

Smart grids testing lab and simulations

We are searching one student interested in deepening his knowledge on smart grids experimental labs and simulations. Due to the complexity of Smart Grids environments, testing labs are deployed to run experiments and understand the behaviours and impact of decisions on a larger scale. Such labs have usually a hybrid structure, with hardware-in-the-loop and software simulations.

The foreseen tasks of the position are the following:

- To review current Smart Grids Testing labs in terms of technologies used and structure of the lab;
- To experiment with selected software systems to manage and run experiments, providing a comparative analysis;
- To build a prototype - based on different components identified in previous steps - for the management of Smart Grids lab;

The candidate will have the possibility to interact with the requirements from a Smart Grids lab in Hradec Králové.

Characteristics of the candidate:

- Good programming skills in either Java/C#/C++;
- Knowledge about some scripting languages, like Python or command line environments such as Bash;
- Good software engineering skills (object orientation, software design);
- Good problem-solving skills;
- Possibly English language knowledge;

We offer:

- Work in a team of motivated young people (Bc/Mgr/PhD students);
- Improving software development skills in a hardware-critical domain;
- Involvement in the latest smart grids research;
- Possible financial bonuses for good performance and results;

Type of collaboration:

- External Contract

Timespan:

- Negotiation: Sept 2016-Jan 2017
- Running time: 1st Feb 2017- 31st Jan 2018 (1 year)

Contact:

Bruno Rossi, brossi@mail.muni.cz