



The objective of the FLEMING project is to revolutionize the continuous function monitoring and in particular the current sensor application in power distribution grids. By using methods of artificial intelligence (AI), combined with an improvement of the associated sensor technology, a significant contribution to the success of the energy and mobility turnaround in Germany is to be made. Particular attention will be paid to the strong fluctuations in feed-in flows caused by the energy revolution and to the new demands of consumers resulting from e-mobility.

Future scenarios, such as "Grid fluctuations when charging electric vehicles", "Load management", "Monetary evaluation of possible grid fluctuations" or "Active grid control" must be described in detail.

The result of the work is a systematic elaboration of future scenarios for sensor use and distribution network operation and maintenance, driven by the energy and mobility turnaround, as well as an economic and environmental assessment.

Therefore we offer from now on the possibility to create a

Bachelor / Master / project work on the topic Development of future scenarios in the context of the energy shift and electro mobility

Your tasks

- Support of a current and interesting research project,
- Independent research of scientific texts (German / English) and preparation of literature,
- Documentation of results.

We offer you

- Collaboration on scientific publications,
- Interesting and demanding tasks,
- The opportunity to acquire knowledge close to practice,
- Cooperation with renowned companies and research partners,
- The possibility of flexible time management and independent work.

Contact person

Martin Bremer, M.Sc.
Phone: +49 241 47705-511
E-mail: Martin.Bremer@fir.rwth-aachen.de

Your profile

- Students from the fields of electrical engineering, mechanical engineering or industrial engineering,
- Very good knowledge of German and English, both written and spoken,
- Basic understanding of UML diagrams,
- Committed, team-oriented and independent working style.

If you are interested, please send your documents (short cover letter, curriculum vitae, certificates, current excerpt from the grade sheet) in digital form to the e-mail address given.