The interdisciplinary post graduate program Integrated Energy Supply Modules for Roadbound E-Mobility (mobilEM) is funded by Deutsche Forschungsgemeinschaft (DFG). The overall objective is the investigation of the physical foundations of electro-chemical energy storage and its combination with novel fuel-operated range extender units.

Postgraduate position

**Research topic**
Chemistry / Investigation of new lithium battery materials

**Scope of work**
- Development of new cathode materials for Li-ion batteries
- Chemical, electrochemical and electrical characterization of the materials (SEM/TEM, XRD, CV, RAMAN, FTIR, XPS, etc.)
- Analysis of structure-property relationship
- Presentation of results within group seminars and project meetings

**Supervisor**
Prof. Dr. U. Simon (IAC)

**What we offer**
- A part-time position (50% of the standard weekly hours for full-time employees). It is possible to upgrade the part-time position to 66%
- of the standard weekly hours for full-time employees
- 3-year PhD fellowship.
- International and interdisciplinary academic network with fellow researchers.
- Extensive qualification and mentoring program.

**Your profile**
- Holder of a university degree in natural or materials sciences with above average scores.
- Experience in electrochemistry of battery materials
- Interest in innovative and interdisciplinary topics.
- High level of responsibility, initiative and team spirit.
- High motivation for conducting a PhD thesis.

**Application deadline**
15.12.2019 (electronic submission is preferred)

The RWTH seeks to increase the proportion of employed women in the scientific and engineering areas and explicitly encourages women to apply for this position.

Applications from disabled persons are also explicitly encouraged.

**Contact for application**
Institute of Inorganic Chemistry
Chair of Inorganic Chemistry and Electrochemistry
Landoltweg 1a
52074 Aachen
http://www.ac.rwth-aachen.de/extern/ak-simon/home.htm
Prof. Dr. U. Simon
phone: +49 (0) 241 80-94644
fax: +49 (0) 241 80-99003
e-mail: ulrich.simon@ac.rwth-aachen.de

Dr. M. Homberger
phone: +49 (0) 241 80-99683
e-mail: melanie.homberger@ac.rwth-aachen.de