

PhD Student (f/m/d)

with background in Chemistry, Material Science, Engineering or similar

Novel catalysts for PEM fuel cells

Context

30% of CO₂ emissions in German road traffic are caused by heavy duty vehicles, although they account for only 10% of all vehicles. Significant amounts of CO₂ can therefore be saved in this sector by electrifying relatively few vehicles. This can be done most economically with fuel cells. For this purpose, fuel cells for long lifetimes (30 000h) must be developed.

Your task

You will work in a collaborative project on the development of long-life polymer electrolyte membrane (PEM) fuel cells for commercial vehicles. To this end, you will synthesize Pt catalysts by means of atomic layer deposition, conduct electrochemical experiments and testing in fuel cells.



Your profile

- Excellent communication skills and team spirit are absolutely necessary
- You are interested in the development of novel materials for a sustainable society
- You work target-oriented and structured
- You enjoy working in the lab

The position

- We offer excellent working conditions in the interdisciplinary “electrochemical energy systems” EES group with a nice atmosphere
- Cutting edge equipment for fuel cells and material development
- Typical duration of a PhD is planned for three years (80% TV-L 13)
- The working language is English or German
- Earliest possible start: April 2021
- Family friendly, flexible working hours

For more information feel free to contact us or visit

www.ees-lab.org

Please send your application via mail to

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