

Job Description

Name of organisation unit: Fuel Cell Systems and Diagnostics Group (5422)

Superior: Felix Büchi

Thesis advisor: Prof. Dr Thomas J. Schmidt (ETHZ)

Supervisor: Jens Eller

Function:	PhD Student
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Position holder: Hong Xu (1993)

Main tasks:

- PhD thesis in "Development of ultrafast X-ray tomographic microscopy" for optimization of water management and materials in polymer electrolyte fuel cells. In collaboration with SYN PhD Student in the same project development of time resolved measurements with 10 Hz, with focus on image evaluation and develop the understanding of the dynamics of 2-phase transport in gas diffusion layers
- Support teaching activities generally at the institution of the thesis advisor and/or perform specific maintenance tasks
- Publication of results and writing of the thesis

Individual related tasks:

- Supervising summer students and master works

Education/skills:

- Higher education in Natural or Computing science
- Good knowledge in Chemistry/Physics and fuel cell and/or imaging technology
- Knowledge in Electrochemistry
- Good knowledge of English

Specifics/special working conditions:

- None

Valid from:	01.12.2016
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Date of issue/initials: 06.09.2016/BF54/DR13