Hiwi Position

Research Assistants for renewable energy systems powered by H_2

Reaktive Strömungen und Messtechnik (RSM)

Reactive Flows and Diagnostics

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The institute of Reactive Flows and Diagnostics focuses on fundamental combustion research and has established world-class combustion laboratories with novel optical diagnostics methods. Advanced imaging methods combing modern lasers and cameras enable an understanding of complex gas and solid combustion processes. Reducing the carbon footprint in the energy sector has become a key challenge to mitigate climate change. Hydrogen (H_2) will be widely used as a renewable clean fuel in the future energy mix. However, the combustion characteristics of H_2 still require extensive investigation and understandings, especially under lean and turbulent conditions.This requires fundamental research, especially laboratory experiments. Currently, we are looking for one student assistant (HiWi) for our on-going H_2 projects.

Working hours can be relatively freely arranged. The employment of about 40 hours/month is expected. The payment is according to the TU rates for student assistants. The work as a student assistant can often be extended to interesting Bachelor/Master theses or ADPs. We are especially welcome students who are interested in working with us for a long term.

Tasks:

1. Support the lab work, for example, experiments planning, construction, manufacturing, and optical measurements.
2. Support the data analysis and presentation

Requirements:

1. Knowledge in NX, Matlab/Python are desired.
2. Interest in lab works