

At Helmut Schmidt University / University of the Federal Armed Forces Hamburg (HSU/UniBw H), Faculty of Mechanical and Civil Engineering, Professorship for Applied Materials Engineering (Prof. Dr.-Ing. Jepsen), a position is **available as of 01.01.2025** for a

### **Research Assistant (m/f/d)**

**(salary group 13 TVöD [Collective agreement for the public service]; 39 hours per week)**

for a limited period of 3 years.

The scientific work is being carried out as part of the research project 'Digi-HyPro – Digitalised Hydrogen Process Chain for the Energy Transition' to develop an energy transformation unit for coupling the gas, electricity, heating and mobility sectors.

#### **Responsibilities:**

- Implementation and evaluation of life cycle assessments (LCA and LCC) integrated renewable energy systems for the energy transition to the hydrogen economy
- Ecological and economic process and component simulation
- Participation in conferences to disseminate project results
- Preparation and completion of scientific publications
- Assistance in teaching to the extent of basically 3,0 trimester hours per week
- Possibility of further academic qualification (e.g. doctorate or habilitation)
- Carrying out general administrative work as well as academic activities in academic self-administration

#### **Qualification requirements:**

- A completed university degree [Diplom (univ.) or Master] in mechanical, chemical process engineering, energy or material technology or comparable disciplines
- Proven experience conducting LCA and LCC ideally with application to renewable energy systems
- Proven knowledge of LCA and LCC software

#### **Furthermore desired:**

- Software knowledge (e.g. MatLab, Simulink, Python, ASPEN Plus, Modelica, Open Foam or COMSOL) or the willingness to acquire it as part of the project work
- Independent, structured and organised way of working as well as a high level of ability to work in a team

- German and foreign language in English with a proficiency level that corresponds at least to the language level B2 of the Common European Framework of Reference for Languages
- A keen interest in scientific work and the ability to teach (in English if necessary)

### **Features of this position:**

- Pleasant and motivating working atmosphere
- Cooperation with research institutions at the national and international level
- Opportunities for professional development in academia
- Capital-forming benefits
- Annual bonus payment
- Company pension scheme
- Flexible working hours
- DeutschlandJobTicket with employer subsidy if the necessary requirements are met
- Possibility of claiming a childcare place in a daycare centre close to the campus if the necessary preconditions are met
- You will benefit from targeted personnel development and an extensive range of further training and education opportunities.
- Budget-friendly meals in the campus canteen with three meals a day
- You have the opportunity to participate in workplace health promotion offers (for more information, see: [www.hsu-hh.de/bgm/](http://www.hsu-hh.de/bgm/)).
- Free parking on the campus grounds
- Possibility of using the Bundeswehr's own car-sharing service (for more information, go to: [www.bwcarsharing.de](http://www.bwcarsharing.de)).

For questions related to scientific or technical aspects, please contact Prof. Dr.-Ing. Jepsen, Tel.: 040/6541-2910 or by e-mail: [jepsen@hsu-hh.de](mailto:jepsen@hsu-hh.de).

The employment is based on the TVöD in conjunction with the Wissenschaftszeitvertragsgesetz [German Act on Fixed-Term Scientific Contracts]. In principle, the activities correspond to pay group 13 (E13). Classification up to pay group 13 of the TVöD shall be made in accordance with § 12 of the TVöD with regard to the activities to be performed on a more than temporary basis and the fulfilment of the personal or collective agreement requirements (job characteristics).

Part-time employment is possible.

The planned appointment date or the "start date" mentioned is a date that may change due to the course of the tendering procedure.

The Federal Armed Forces promotes professional equality between women and men and therefore particularly welcomes applications from women.

In accordance with the Sozialgesetzbuch IX [Social Code Book IX] and the Disability Equality Act, we expressly welcome applications from severely disabled persons; the fulfilment of the requirements for the advertisement will be considered on an individual basis.

More information about the university and the professorship can be found at:

[www.hsu-hh.de](http://www.hsu-hh.de) and [www.hsu-hh.de/awt](http://www.hsu-hh.de/awt).

Please send your application with the usual documents exclusively in electronic form (pdf file), quoting the reference number **MB-3724**, by **19.12.2024** to:

[personalabteilung@hsu-hh.de](mailto:personalabteilung@hsu-hh.de).

Note:

Information on data protection in the application process can be found on the website [www.hsu-hh.de](http://www.hsu-hh.de) under the heading "Universität - Karriere - Datenschutzinformationen".

Applications without reference number will not be considered and will be deleted immediately for data protection reasons.

