

At the **University of Applied Sciences Emden/Leer**, which regards itself as an innovative, trend-setting university of the future, at the **Faculty of Technology** in the Institute of Hyperloop Technology (IHT) at the **Emden Campus**, the following position is to be filled at the earliest possible date with 75% of the regular weekly working hours of a full-time position - limited until 31 October 2025.

**Research assistant as PhD student
(according to the required qualification up to E 13 TV-L, 75 %)
Code number T 299**

The University of Applied Sciences Emden/Leer is a driving force for the region and sets an example for innovative developments in the north-west with excellent facilities for application-orientated research. The Institute of Hyperloop Technology at the University of Applied Sciences Emden/Leer is looking for support as part of the projects "**ePICenter**" (enhanced Physical Internet-compatible earth-friendly freight transportation answer), **EU HyTeC** (EUropean HyperLoop Technology Center) and the Transfer Centre for Sustainable Mobility. Together with the European partners, technologies and use cases of Hyperloop technology are being analysed and possible next steps regarding the development of a large-scale research facility are being investigated. As part of the projects, more than 50 universities, research institutes and users from industry and business worldwide are working together with innovative approaches to solve future-orientated logistics challenges. Physical demonstrators and a test track are used to analyse subsystems. This position conceptualises the test operation of Hyperloop applications and carries out experiments and tests to validate Hyperloop technology. As part of the cooperation with the Carl von Ossietzky University of Oldenburg in the Engineering Physics programme, we offer you an inspiring environment for the successful completion of a doctorate. You will make a contribution to a climate-friendly society in an innovative field of research with outstanding significance for sustainability in the transport sector.

Your Tasks:

- Scientific project collaboration for the development of logistics solutions with a hyperloop transportation system
- Interdisciplinary linking of engineering science and physics challenges
- Development of design studies, simulation and modelling of the test operation of Hyperloop applications
- Design, setup, further develop and evaluate test setups and demonstrators
- Design, acquisition, and integration of system components
- Preparation and presentation of research results in appropriate media, publications and at scientific conferences

Ihr Profil:

- Above-average scientific university degree (Master, Diploma), preferably physics, or relevant engineering sciences
- Experience in experimental and engineering practice
- Practical experience with soft- and hardware programming
- Motivation to research climate-friendly transportation and logistics systems
- Knowledge of physical technologies, automation and control engineering
- Very good communication skills, both written and spoken, in German and English
- Distinct flexibility, willingness to learn as well as readiness for interdisciplinary cooperation and teamwork

Wir bieten Ihnen:

- Independent work within a committed team in close contact with the teachers, staff, and students of the faculty
- Company pension scheme
- Flexible working time models and offers to reconcile work and family life (e.g. emergency childcare, holiday care for school children, etc.)
- University sports and health-promoting measures for employees

Prof. Dr. Walter Neu (e-mail: walter.neu@hs-emden-leer.de) and Prof. Dr.-Ing. Thomas Schüning (e-mail: thomas.schuening@hs-emden-leer.de) are available to answer any questions you may have.

The university strives to increase the proportion of women in its academic staff and strongly encourages women to apply. Severely disabled applicants will be given special consideration if they are equally qualified.

Have we aroused your interest?

Then send your application with the relevant documents, quoting the reference number, online via our career portal or by post:

**Hochschule Emden/Leer
Personalabteilung
Constantiaplatz 4
26723 Emden**

<https://karriere.hs-emden-leer.de/>

This job advertisement will be publicly announced on 20th of December 2023 on our career portal and on various online portals ([academics.de](https://www.academics.de), [jobvector.de](https://www.jobvector.de), [linkedin.com](https://www.linkedin.com), [pro-physik.de](https://www.pro-physik.de)).