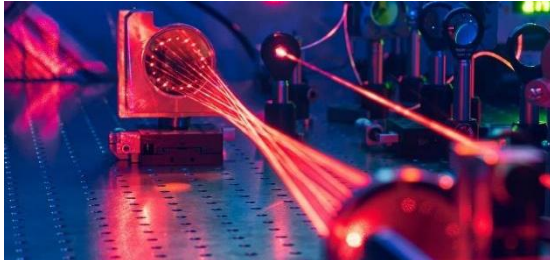


The Chair of Laser Technology & Spectroscopy at the Faculty of Electrical Engineering of the Helmut Schmidt University (Bundeswehr University Hamburg) offers a position within the framework of a third-party funded research project as

**Student Assistant (SHK / HiWi-Position)
for a start-up project
(9,60 €/h, up to 18 hours per week)**

temporary for a limited duration of 16 months.



Ultrashort pulse lasers with a duration of approx. 250 fs have become indispensable tools in research and industry. We are performing a technology push by upgrading industrial-grade lasers to deliver pulses as short as 10 fs. This brings us to our twofold mission. Firstly, we are going to provide scientists with extremely reliable ultrashort pulse lasers to advance the frontier research in ultrafast spectroscopy, microscopy and tumor detection. Secondly, we aim to satisfy the growing industrial demand in high-end material processing applications for stable and reliable ultrafast lasers with ever shorter pulse durations.

Our future products will be add-on modules which can be easily adapted to nearly all different types of existing laser systems. This way we are not only providing the added value to a customer but also bringing sustainability to the ultrafast laser market. Our team has over 17 years of cumulative experience with this technology. Our technology features unprecedented stability, reliability and life time.

[Our team](#) convinced the jury of the EXIST research transfer funding program of the German Federal Ministry for Economic Affairs and Energy (volume 800,000 €) with its innovative technology and the associated business plan. This program is aimed at outstanding, high-tech, research-based start-up projects. Currently we are hosted by the young and dynamic Chair of Laser Technology and Spectroscopy (Prof. Dr. Pronin), an excellent research facility providing all necessary infrastructure and support for such a spin-off project.

Areas of responsibility:

- Support in the assembly and testing of our optomechanical prototypes

- Creation of promotional documents (PPT presentations, flyers, website)
- Conception and execution of market research
- Optional: Development of a numerical software for the simulation of nonlinear optics

Qualification requirements:

- You have a Bachelor's degree in physics, mechanical engineering or industrial engineering
- You speak fluent English

Desirable:

- You have an affinity for interdisciplinary work alternating between technical and commercial tasks
- You enjoy facing challenges and improvising on a daily basis.
- You are a problem solver with strong analytical thinking skills.

We offer:

- Inexpensive food options at the university canteen (three times per day)
- An excellent infrastructure for sports from gym to swimming hall
- A diverse, varied and challenging job in an application-oriented research environment
- Workplace at a green campus university in the eastern part of Hamburg with flexible working hours and free sports programme within the occupational health scheme
- Possibility of using the Bundeswehr-owned car sharing

If you have any questions, contact Prof. Dr. Pronin, phone +49(0)40/6541-2756, e-mail: oleg.pronin@hsu-hh.de or Christian Franke, e-mail: christian.franke@hsu-hh.de.

This position is open to persons of all genders. We explicitly welcome applications from women. Women will be given preferential consideration, if applicants are equal in aptitude, qualification and professional achievement in areas in which women are underrepresented, unless reasons concerning the personality qualifications of a fellow applicant takes precedence.

We explicitly welcome applications from handicapped people. Severely handicapped people and people of comparable status will be given preferential consideration, if applicants are equal in aptitude. They are only required to have a minimum of physical aptitude. Individual handicap-related limitations will only preclude preferential consideration, if the profile of the post in question absolutely requires certain capabilities.

More information about the university can be found at the Internet address www.hsu-hh.de. More information about the professorship can be found at the Internet address www.hsu-hh.de/lts.

Please send your application and the standard documents required – in electronic form (pdf file) only! – to the address **below by 31 October 2021, stating the reference number (ET-3521)**:

personaldezernat@hsu-hh.de

Note:

For information on data protection for applications, see the Internet site of HSU/UniBw H at “University - Jobs - Privacy Policy”.

Applications without the reference number above will be rejected and deleted for reasons of data protection.