

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We'll show you how at Fraunhofer.



STARTING NOW, THE FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING OFFERS YOU AN EXCITING JOB OPPORTUNITY AS A

STUDENT ASSISTANT F/M FOR A BACHELOR/MASTER THESIS IN THE SECTOR "LASER TECHNOLOGY"

Fraunhofer is the largest organization for application-oriented research in Europe. Our fields of research are geared to the needs of people: health, security, communication, mobility, energy and environment.

The Fraunhofer Institute for Applied Optics and Precision Engineering IOF in Jena conducts application-oriented research in optical systems technology on behalf of industry and within the framework of publicly funded joint projects. The range of services offered by the Fraunhofer IOF includes system solutions, starting with new design concepts, through the development of technologies, manufacturing and measuring processes, to the construction of prototypes and pilot series for applications in the wavelength range from millimeters to nanometers.

The working group "Fiber Laser" is responsible for fiber- and laser-design, exploring nonlinear optical effects in fibers and mounting technologies for scaling of fiber laser systems to achieve high optical performance.

What we expect from you

- Studies in the field of physics, laser technology, informatics, materials sciences or a related course of study
- Prior knowledge of at least one of the following fields is desirable: Laser technology and nonlinear optics, materials sciences, optics and measurement technology, scientific python programming
- Structured, methodical approach

The tasks can be carried out as a practical semester, a thesis or a study-related ancillary activity.

What you can expect from us

The following topics are available soon:

- Fluorescence microscopy of laser-active materials
- Development, evaluation and qualification of process steps and measurement methods to produce fiber preform and photonic special fibers
- Assembly and characterization of monolithic CW fiber lasers or fiber amplifiers with a high output power
- Diamond Raman Laser
- Fiber laser and Raman amplifier in IR ($> 2 \mu\text{m}$)
- Production process for protective coats of fibers

Employment, remuneration and social benefits according to the general work agreement for employing assistant staff. The position is initially limited to six months. A renewal is possible. The weekly working time are 39 hours.

In case of identical qualifications, preference will be given to severely disabled candidates.

Please note that the chosen occupational title also includes the third gender.

The Fraunhofer-Gesellschaft is committed to providing equal career opportunities for men and women.

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas.

We look forward to receiving your application! Please use our online application portal.

<http://www.iof.fraunhofer.com>

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