



29.08.2025

Scientist/PhD student (optical fibers)

The Institut für Strahlwerkzeuge (IFSW) of the University of Stuttgart, founded in 1986, is renowned as one of the leading laser research centers worldwide. Its strength is based on a holistic research approach covering every aspect – from laser sources to their applications, and ranging from fundamental investigations to industrial technology transfer. The main activities at the IFSW are currently concerned with selected topics in the fields of laser beam sources (especially the thin-disk laser), optical elements and components for beam delivery and beam shaping, as well as fundamental investigations on the light-matter interaction, with the subsequent process development of macro and micro applications for industrial manufacturing.

Within our laser development and fiber optics activity we aim to develop – in the frame of a project funded by the Graduate School of Excellence advanced Manufacturing Engineering (GSaME) specialty – optical fibers (hollow-core fibers) for the delivery of high-power and high-energy laser beams.

The ultimate objective will be to design, fabricate (using our own fiber production facilities), and qualify the developed fibers using state-of-the-art industrial and self-build laser systems.

For this we are looking for a

Scientist / PhD student (m/f/d)

Do you want to work on a challenging scientific project, have an above-average degree, and preferably have some knowledge and hands-on experience in fiber optics, optics design, laser physics, and non-linear optics? Apply now!

The salary will be according to TV-L 13 (100 %) plus the usual benefits. The position offered is limited to four years.

The application deadline is 31.10.2025

Please provide your:

- Motivation letter
- Curriculum Vitae
- Transcripts (Bachelor and Master)
- The contact data of 2 reference persons (including letter of support)



Send your application to:

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The University of Stuttgart is committed to increasing the number of women in science and encourages qualified female candidates to apply. Applicants with a disability and equal qualifications will be given preference.