

The Laboratory for Micro-optics in the Department of Microsystems Engineering (IMTEK) at the University of Freiburg is primarily engaged in research on tunable micro-optics, adaptive micro-optical systems, and micro-optical systems for applications in medicine and biology. Within the framework of our activities, we are looking for

2 PhD Students

to work on the following projects:

Project 1 comprises fabrication and characterization of an optical microsystem based on electro-wetting. This optical system will allow both lateral positioning and tuning of the focal length of liquid micro-lenses.

Project 2 comprises design, fabrication and characterization of a membrane-based tunable achromatic optical system. The system may be used as a tunable lens or for introducing controlled aberrations to a imaging optical system.

Responsibilities: Development, fabrication, and characterization of the optical micro-system

Qualifications

- Master's degree or equivalent in Microsystems Engineering, Electrical Engineering, or Physics
- Experience in several of the following fields: optics, micro-optics, microsystems design, process technology, characterization of microsystems, electronics, surface physics
- Strong ability to work in an interdisciplinary and team-oriented environment
- Languages: German and English

Both projects include the cleanroom fabrication of the devices, development of electronic control circuitry, optical and electrical characterization and demonstration of a complete microsystem. The positions are available immediately.

We invite applications from excellent candidates with a university degree in an aforementioned field. Candidates from other scientific or technical disciplines can also be considered provided that your experience meets the profile of the position. Candidates with a degree from a German university of applied science (Fachhochschule) can only be considered if the final grade is better than 2.0.

Please send your application, in German or English, **on paper** to the address below. No email applications will be considered. Closing date for applications is June 15, 2007.

For further information please contact:

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Please send your CV and other documents to:

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