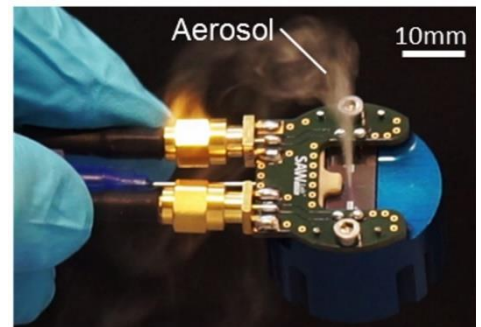


Student Assistant (m/f/d) in Micro acoustic Aerosol Generation

There are open positions for student assistants (m/f/d) at **SAWLab Saxony**¹ as part of the Leibniz Institute for Solid State and Materials Research (IFW Dresden). You will work in the field of acoustofluidics devices, in particular on microacoustic aerosol generation.

At SAWLab Saxony, we have recently developed a compact acoustic aerosol source that can be used for micro-droplet generation in application areas such as mass-spectrometry, material deposition, inhalation therapy, and olfactory sources. The aerosol generation is based on the interaction of high-frequency sound waves (surface acoustic waves, SAW) with fluids in a microchannel. This study is dedicated to the investigation of the flow distribution of generated droplets from an atomizer focused through a nozzle by a carrier gas. This study will provide insight into the improvement of nozzle geometry and aerosol guiding for many applications.



As a candidate (m/f/d), you study process engineering, microsystems technology, electrical engineering, mechanical engineering, microfluidics, or similar and are interested in being part of a cutting-edge research team and working with promising lab-on-a-chip technology. First, experiences in either microfluidic design and experiment, aerosol science, microfabrication techniques, and 2D/3D CAD are advantageous. The ability to work in a team is strongly required.

The institute promotes professional equality between all genders. In science, the IFW Dresden would like to increase the proportion of women. Qualified women are therefore explicitly invited to apply. Applications from severely disabled persons are explicitly encouraged. You can also ask for a master's or diploma thesis in this group.

If you are interested in the position, please send your application (in English or German) with **reference number 039-23-4500**, including a cover letter with a CV and copies of certificates and other relevant material (if applicable), as a single pdf file to the following email address:

bewerbung@ifw-dresden.de.

The position is open as long as the announcement is online. Please address your questions and your application to Dr.-Ing. Mehrzad Roudini (m.roudini@ifw-dresden.de).

¹ Center for Acoustoelectronic Fundamentals, Technologies and Components, www.SAWLab-Saxony.de

