



The Institute of Clinical and Experimental Trauma Immunology (Head: Prof. Dr. Markus Huber-Lang) is looking for a

## PhD student (f/m/d) – Trauma on a chip

The ITI is excited to announce an opening for a PhD position in our research team focused on establishing trauma models using organ-on-a-chip technology. This position, funded at TV-L 65%, offers a unique opportunity to contribute to pioneering research at the intersection of bioengineering and trauma biology.

Trauma remains one of the leading causes of death especially in people below the age of 45. This project will investigate the contribution of trauma on posttraumatic immune responses, and organ dysfunction employing a broad spectrum of methods. The project will be supervised by PD Dr. rer. nat. Rebecca Halbgebauer and includes a broad spectrum of methods and state-of-the-art *in vitro* and *in vivo* models as well as clinical studies.

The successful candidate will be responsible for developing and validating *in vitro* trauma models, aiming to replicate and study the complex physiological responses of human tissues to injury. Key tasks include designing and executing experiments, analyzing data, and collaborating with interdisciplinary teams.

### What we offer:

The Institute of Clinical and Experimental Trauma Immunology (<https://www.uniklinik-ulm.de/iti>) focusses on the pathomechanisms of posttraumatic complications such as infection and multiple organ dysfunction, and the development of novel therapeutic approaches. As a highly motivated team, we offer interesting research topics with utmost clinical relevance within an excellent scientific environment. The Institute is also active in the **Collaborative Research Centre 1149** (CRC1149) "Danger response, disturbance factors and regeneration after acute trauma" and offers extensive local and international collaborations. Salary and benefits are according to the German TV-L system. We expect PhD students to join the International Graduate School of Molecular Medicine Ulm (IGradU). Furthermore, we encourage students to present their data in national and international conferences.

### Candidates:

Applicants will hold an excellent M.Sc. degree or equivalent in molecular medicine, biochemistry, biology etc., are fluent in English, and have a strong motivation to address biological and medical questions with interdisciplinary approaches.

**Start of the project:** as soon as possible

**Duration:** 3 years

Please send your application as one merged PDF file containing a letter of motivation, CV (+ list of publications), certificates and transcripts of grades (B.Sc., M.Sc., other degrees), to [Rebecca.halbgebauer@uniklinik-ulm.de](mailto:Rebecca.halbgebauer@uniklinik-ulm.de).