

Visions to Products



Hahn-Schickard stands for industry relates applied research, development and production in Microsystem Technologies. More than 270 employees develop at Freiburg, Stuttgart, Ulm and Villingen-Schwenningen solutions in Microsystem Technologies – from the first idea till to production. We are regionally based and also recognized as an international global partner.

At the **Freiburg site**, the focus is on analytical solutions, especially for point-of-care diagnostics.

For our **Laboratory Automation Division at Freiburg im Breisgau** we offer the following position for students (m/f/x) beginning from June 2022 (or later)

Master Thesis (m/f/x) Conception & development of a perfusion system for organ-on-a-chip applications

Your tasks

You will work in an interdisciplinary team on the development of complete solutions for automated liquid handling. Within the scope of the master thesis, a perfusion system for the smallest flow and pressure ranges is to be developed.

- Evaluation of suitable flow and pressure ranges
- Research and concept development
- Comparison of different concepts
- Selection of suitable components
- Construction of microfluidic test stands
- Measurement and evaluation of measurement data
- Integration into a complete system

Your profile

engineering degree in the field of microfluidics, embedded systems, mechatronics, microsystems technology or comparable with above-average success.

knowledge in the area of programming embedded systems/microcontrollers, in the languages Python or C/C++

Knowledge of CAD with the latest CAD programs (SolidWorks)

ideally, previous expertise in the field of microfluidics, patent research and the control of sensors using i2c and SPI

good communication skills in English and German

Our offer

- ✓ an attractive workplace at a modern, excellently equipped research institute that is close to industry
- ✓ excellent support for your work in a dynamic team
- ✓ flexible working hours
- ✓ partial refund of travel expenses when using public transport of the ÖPNV (public transport system)
- ✓ limited duration of contract is a maximum of 6 months

Application process

If you are interested, please send us your **complete application documents** (motivation letter/resume+CV/certificates/transcript of records/credentials) **online**, stating the reference number **22/3630/37** in a **complete PDF document file** and name the job portal details

If needed - please use for any questions contact of Mr. L. Riek by phone +49 (0)761 203-73235.

The decision is made directly by the division.

Please have patience - your personal application process will take some time..

Kontakt

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Scannen Sie den QR-Code mit Ihrem Smartphone, um die Stelle online anzuzeigen.