

Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities. **Join us to invent the future!**

In the **Faculty of Computer Science, Electrical Engineering and Mathematics** in the Department of Electrical Engineering and Information Technology – **Subgroup EXIST Research Transfer Project AutoAquaControl** – up to two positions are to be filled as soon as possible

Research Assistants (f/m/d)

(Salary level according to 13 TV-L)

with 100 % of the regular working hours. These are fixed-term positions initially limited until March 31st, 2027 due to third-party funding within the meaning of the German Act on Fixed-Term Research Employment Contracts for Academic Staff (Wissenschaftszeitvertragsgesetz "WissZeitVG"). The duration of the fixed term corresponds to the approved project period. An extension of the project may be possible.

Both positions are part of an *EXIST research transfer project*, which is financed by the German Federal Ministry for Economic Affairs and Energy. In the project, the existing prototype of an autonomous, batteryless leak detector system will be developed to be ready for series productions and then marketed via a start-up company. The project involves a team of four research assistants and up to four student assistants as well as several mentors. The research transfer project is embedded in the Department of Electrical Engineering and Information Technology and works closely with the start-up center *garage33*.

We are looking for university graduates willing to contribute to designing and developing the leak detector system helping to make the vision of a start-up a reality. You will work hands-on on further developing our patented prototype while gaining first-hand experience in entrepreneurship. You will have the opportunity to take ownership of key decisions, experiment with new ideas, and contribute to building a company from the ground up.

Duties and responsibilities:

- Collaboration in establishing an innovative and batteryless leak detector system and in founding a start-up
- Independent development of the hardware components of the leak detector system

Recruitment requirements:

- Scientific university degree (Master or equivalent) in electrical engineering or a related field
- Experience in at least two of the following areas:
 - PCB/circuit design with EAGLE or similar software
 - Knowledge in power electronics or EMC design
 - Knowledge of microcontroller programming, e. g. EFM8SB1
 - Knowledge of RF technology, e. g. Si4012 transmitter chip
 - Experience with RF circuit design
 - Knowledge of antenna layout
- Keen interest and motivation to build a start-up
- Very good command of English and basic understanding of German or the willingness to learn it

We offer:

- Flexible working hours and the individual option of mobile working
- Wide range of health, counseling and prevention services
- Attractive fringe benefits such as childcare facilities and sports activities
- Opportunities for internal and external training and development
- Additional benefits in accordance with the collective agreement of the federal states (TV-L), such as annual bonuses and capital-forming benefits as well as the VBL supplementary pension scheme
- A pleasant working atmosphere in an interdisciplinary team that closely cooperates
- The prospect of employment in the later start-up

Applications from women are particularly welcome and, in case of equal qualifications and experiences, will receive preferential treatment according to state law (LGG), unless there are preponderant reasons to give preference to another applicant. Part-time employment is generally possible. Applications from disabled people with appropriate suitability are explicitly welcome. This also applies to people with equal opportunities in accordance with the German social law SGB IX.

Please send your application documents (letter of motivation, detailed CV containing education and employment records, transcripts of Bachelor's and Master's degree) using the **Ref. No. 7122**, preferably in a single pdf file, to angeljka.endres@uni-paderborn.de.

Information regarding the processing of your personal data can be located at:
<https://www.uni-paderborn.de/en/zv/personaldataenschutz>

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HR EXCELLENCE IN RESEARCH

