Saarland University is a campus university that is internationally recognized for its strong research programmes. Fostering young academic talent and creating ideal conditions for teaching and research are a core part of the university’s mission. As part of the University of the Greater Region, Saarland University enables students and staff to share and exchange knowledge and ideas between disciplines, between universities and across borders. With over 17,000 national and international students, studying more than a hundred different academic disciplines, Saarland University is a diverse and dynamic learning environment. [Saarland University is officially recognized as one of Germany’s family-friendly higher-education institutions and with a combined workforce of more than 4,000 it is one of the largest employers in the region.]

The Systems Neuroscience & Neurotechnology Unit, Medical faculty is inviting applications for the following position

**Academic research assistant (m/f/x)**

Reference number W2057, salary in accordance with the German TV-L salary scale\(^1\), pay grade: E13, 2 years, employment: 100 % of standard working time.

**Workplace/Department:**
You will be working in the project VI-Screen at the Systems Neuroscience and Neurotechnology Unit, Faculty of Medicine in an interdisciplinary team and in collaboration with researchers from TU-Berlin and the Saarland University Clinic. In this project, we will investigate and develop a system for contactless screening of respiratory virus infections. You will get the opportunity to work with a worldwide unique and state-of-the-art dataset that is currently being recorded with a multimodal sensor system. The data consist of calibrated RGB stereo, NIR and thermal videos, microphone recordings as well as the laboratory diagnostic detection of multiple different respiratory viruses and bacterial pathogens and information on the microbiome. The diagnostic data from the lab and patient anamneses will be used as ground truth for the development and validation of computer vision algorithms and offers great potential for scientific publications for your postdoc career.

**Job requirements and responsibilities:**
Design of a multimodal videosystem and implementation / extension of existing image acquisition routines
- Development and implementation of methods from machine learning and computer vision with a focus on methods for remote physiological and psychophysiological assessment (rPPG, micro-expressions, …)

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\(^1\) TV-L = collective agreement on remuneration of public sector employees in the German Länder

The pay grade assigned to an employee depends on their professional qualifications and the number of years of service. Each pay grade is further subdivided into levels. Entry-level employees with no previous experience will initially be assigned a level 1 rating. After one year at level 1 of the E10 pay grade, an employee will move up to level 2. After a further two years, the employee will move to level 3, etc.
• Correlation of lab results with the data from the contactless modalities in cooperation with the project team
• Participation in the implementation of those methods into a real-time system
• Literature research and preparation of scientific publications

Your academic qualifications:
• Completed scientific university studies in visual computing, computer science, math or comparable (M.Sc.) or scientific doctoral degree / PhD

The successful candidate will also be expected to:
• Have experience in the area of visual computing, deep learning or biomedical imaging, backed up with successful projects and publications
• Have very good programming skills in Python or Matlab, basic programming skills in C++
• Be interested in interdisciplinary work and has an interest in working on topics that are not their core area of expertise to look at the given problems from different angles
• Be able to work independently on scientific topics and to coordinate requirements in an interdisciplinary team
• Have an interest to compile their results into scientific publications
• Have scientific writing skills in English

What we can offer you:
• A flexible work schedule allowing you to balance work and family
• A broad range of further education and professional development programmes
• An occupational health management model with numerous attractive options, such as our university sports programme
• Supplementary pension scheme (RZVK)
• Discounted tickets on local public transport services (‘Jobticket’)

We look forward to receiving your application. Please quote reference number W2057 when applying. Applications must be received by no later than 30 April 2022 and should be sent by E-Mail to the following address:

Email: daniel.strauss@uni-saarland.de

If you have any questions, please contact us for assistance. Your contact:
Herr Philipp Flotho
Systems Neuroscience and Neurotechnology
Tel.: +49 (0)681/ 5867 99079
Email: philipp.flotho@uni-saarland.de

In accordance with the objectives of its equal opportunities plan, Saarland University seeks to increase the proportion of women in this field. Qualified women candidates are therefore strongly encouraged to apply. Preferential consideration will be given to applications from disabled candidates of equal eligibility. The successful candidate has the option of choosing to work part-time in this position.

We welcome applications regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, and sexual orientation and identity.

Pay grade classification is based on the particular details of the position held and the extent to which the applicant meets the requirements of the pay grade within the TV-L salary scale.

Unfortunately, costs for attending an interview at Saarland University cannot be reimbursed in principle.

When you submit a job application to Saarland University you will be transmitting personal data. Please refer to our privacy notice for information on how we collect and process personal data in accordance with Art. 13 of the Datenschutz-Grundverordnung. By submitting your application you confirm that you have taken note of the information in the Saarland University privacy notice.