



Open Postdoc Position

BIROMED-Lab

Department of Biomedical Engineering

The Bio-Inspired RObots for MEDicine-Laboratory (BIROMED-Lab) at the Department of Biomedical Engineering (DBE) at the University of Basel offers an exciting, multidisciplinary, and applied research environment. Our research is interdisciplinary and organized in close collaboration with clinicians and industrial partners.

Project background:

We seek a postdoctoral researcher to join our team for the project «**Miniature Intraoral Robot (MIR) Performing Minimal-invasive, Personalized and Precision Dentistry**» funded by Innosuisse. This position is embedded in the BIROMED-Lab performing medical robotics and mechatronics research under the lead of Prof. Dr. Georg Rauter.

Job description:

This position is focused on the development of a robotic device for tooth preparation enabling a fully digital treatment workflow. Within the scope of this project you will collaborate with and supervise at least two PhD students at the BIROMED-Lab and take over project management duties. You will collaborate with clinical and industrial partners in developing and translating this novel device for safe, precise, and personalized tooth preparation. As post-doctoral researcher at the BIROMED-Lab your responsibilities will furthermore include active participation in research activities, supervising PhD, master, and bachelor students, writing research grants, and supporting teaching activities.

This is a fixed term position (3 years). Start date: August 2023 or upon agreement. You will work at the SIP Basel Area main campus, an exciting and modern working environment in which various research groups of the DBE are located.

Your profile:

- Doctoral degree in mechanical engineering or a closely related discipline
- Strong practical skill set in mechatronics and robotics
- Experience in collaborating with clinical partners and/or industrial partners in the medical field
- Hands-on person who likes to work with hardware
- Highly motivated team-player looking forward to work in applied medical robotics research
- You demonstrated excellent project management skills, have leadership experience, and are ready to take on responsibilities
- Strong communication skills, enabling effective collaboration
- Demonstrated strong competence in supporting and mentoring students
- Proficiency in written and spoken English is required, German is a plus
- Experience with medical regulatory affairs is a plus

Ready to revolutionize dentistry? We are.

Applications will be accepted until the position is filled. Apply by email sending us the following materials:

- a letter of motivation that describes your interest in this position and relevant research experiences and capabilities (max. 1 page) (LastName_lom.pdf)
- CV and publication list including a link to your dissertation (LastName_cv.pdf, LastName_pub.pdf)
- diplomas (LastName_diploma.pdf)
- name, phone number, and email address of at least two references (LastName_references.pdf)



Want to know more about us? check out www.dbe.biomed.unibas.ch and contact us for a lab visit.