Postdoc position available (Analysis of kinematic/EMG data on sign language)

The Department of Linguistics at the University of Salzburg invites applications for a position as a Postdoctoral researcher. The Postdoctoral researcher will support the work of Dr. Roehm (Cognitive Neuroscience), Dr. Krebs (Sign Language Psycholinguistics) and Dr. Schwameder (Kinesiology). The successful applicant will analyze motion capture and EMG data to develop kinesiology-based algorithms for sign language production in Deaf users of Austrian Sign Language, and hearing sign language learners. The post will include data collection of kinematic variables using motion capture and EMG modalities, followed by data analysis and modeling of sign production learning trajectories. The work will be conducted in collaboration with an international team in the framework of the FWF funded Project "The Grammar of Sign Language Movement", with the office space and laboratories available both at the Department of Sport and Exercise Science and Department of Linguistics.

This full-time post is available from 1. October 2022 on a fixed term basis until 30. September 2026 (4 years). This role offers the opportunity for hybrid working – some time on campus and some from home.

Salary

The gross salary per month will be 4.061,50€

Package

Holiday allowances, flexible working, pension scheme and relocation allowance (if applicable)

Basis

Full-time (100%)

Job category/type

The applicant will be responsible to implement the project-goals from data collection, data analysis and scientific reporting in close cooperation with the project team.

About you

- Applicants will possess a relevant PhD (or be nearing completion) or possess an equivalent qualification/experience in Kinesiology, Human-Computer Interaction, Electrical Engineering, Motor Control, or Computer Science.
- The group's language of interaction is English; knowledge of German is not essential
- Applicants will have experience with collecting kinematic and EMG data, and be able to analyze and model multimodal data in any of the typically used programming environments (MATLAB, Python, R…) using appropriate statistical and/or machine learning approaches.
- Experience with kinematic motion capture systems beneficial (Qualisys, V3D, MATLAB, etc.)
- The applicant will have good writing skills and an interest in developing a strong publication record.

- The successful applicant will be independent, responsible, outcome-focused, committed to research, and flexible in working with a large interdisciplinary team.
- The applicant will have very good organizational skills necessary for conducting/documenting experiments and data analyses procedures.
- Experience in supervising PHD students and student assistants for research activities is welcome.
- Experience with any sign language beneficial, but not essential.

What we can offer you
- Freedom (and the support) to pursue your intellectual interests and to work creatively across disciplines to produce internationally exciting research.
- Support teams that understand the University wide research and teaching goals and partner with our academics accordingly.
- Possibilities for education and trainings, including participation in international conferences, Austrian Sign Language classes, etc.
- For an interested candidate, teaching and academic organizing experience can be arranged, although it is not required.
- Staff benefits such as access to the infrastructure of the University of Salzburg (e.g. research office, office for internationalization) or specific continuing education programs offered specifically to University staff.
- A campus setting in historical Salzburg, and beautiful nature setting.

Application should include the following supplemental materials:

1. Cover letter explaining qualifications for the position (maximum of two pages)
2. Three representative publications
3. Curriculum Vitae (CV)

Applicants must send all application materials to Professor Dietmar Roehm (Dietmar.Roehm@plus.ac.at). All applications materials must be received by 31. August 2022.

For further information please contact Prof. Dietmar Roehm.