BioTechMed-Graz is a cooperative initiative between the University of Graz, the Medical University of Graz and the Graz University of Technology at the interface of basic biomedical research, technological developments and medical applications with the goal of conducting joint health research.

Within the cooperative project BioTechMed-Graz, the three partner universities are pursuing the goal of joining the forces of their existing competences within the four major research areas of 'Molecular Biomedicine', 'Neurosciences', 'Pharmaceutical and Medical Technologies' and 'Quantitative Biomedicine and Modelling' through the establishment of a joint cooperative platform.

BioTechMed-Graz is – besides other projects – focusing on the Postdoc-Pool, which aims at promoting young scientists with international background and integrating them in the framework of BioTechMed-Graz in order to support innovative research in Graz.

For the project

„Brain, Eyes & Ears – Pattern Recognition Initiative (BEE-PRI)" the Institute of Physiology at the Medical University of Graz is seeking to appoint a

Postdoc

(fixed-term employment for the period of 2 years; position to be filled as of now)

Contact person
Peter B Marschik, Assoc. Prof. PD Mag. DDr.,Research Unit iDN - interdisciplinary Developmental Neuroscience, Institute of Physiology, Center for Physiological Medicine, Medical University of Graz, E-mail: peter.marschik@medunigraz.at, Phone:+43 (0)316 380-4276

Research partners
Christian Enzinger, Assoc. Prof. PD Dr., Research Unit Neuronal Plasticity & Repair, Department of Neurology and Division of Neuroradiology, Department of Radiology, Medical University of Graz
Andreas Fink, Assoc. Prof. Mag. Dr., Institute of Psychology, University of Graz
Ralf Vollmann, Ao. Univ.-Prof. Mag.Dr., Institute of Linguistics, University of Graz
Franz Pernkopf, Assoc. Prof. DI Dr., Signal Processing and Speech Communication Laboratory, Graz University of Technology
Barbara Schuppler, Mag. Dr., Signal Processing and Speech Communication Laboratory, Graz University of Technology

Research topics
- Research focus: detection of early parameters of maldevelopment in infants and children with neurodevelopmental disorders
- Analysis and processing of biosignals (speech signal processing, video processing)
- Development of medical-technical approaches for classification and pattern recognition problems
- Support and complement ongoing projects in developing machine learning approaches to integrate and analyze large-scale interaction data sets

Professional qualifications
- Completed doctoral degree in technical sciences or an other relevant subject area
- High level of research productivity through publication in top peer-reviewed conferences and journals
- Experience in writing grant applications
- Interest in applied interdisciplinary research
- Comprehensive knowledge and practical experience in the fields of signal processing, machine learning, pattern recognition and classification
- Experience in biomedical applications, pattern recognition, and machine learning
- Proficiency with programming languages such as MATLAB is highly desirable

- Knowledge of machine/statistical learning and mathematical modeling techniques is preferable
- Excellent English skills

Personal profile
- Careful, thorough and reliable way of working in a multi-disciplinary environment
- Team orientation
- Communicative competence

The minimum salary as stated in the collective agreement for universities and according to the classification scheme (B1) is EUR 3,483.30 gross/month (Postdoc).

Application Deadline: **October 21, 2014**

Applicants should send a CV and publication list, copy of doctoral graduation record as well as names and contact details of two referees to peter.marschik@medunigraz.at.

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0072 Institut für Physiologie
Harrachgasse 21/V
8010 Graz

If you have any questions, please contact Peter B Marschik, Assoc. Prof. PD Mag. DDr., Research Unit iDN - interdisciplinary Developmental Neuroscience, Institute of Physiology, Center for Physiological Medicine, Medical University of Graz, E-mail: peter.marschik@medunigraz.at, Phone:+43 (0)316 380-4276.

Further information can be found at www.biotechmedgraz.at