

HEALTH TELEMATICS SCIENCE INSTITUTE

Department	Job position	Part of FTE	Study field	Science field	Required competences and experience
Laboratory of Technology for Human Non-invasive Physiological Measurement and Monitoring	Senior Researcher	1,0	-	T010 Measurement Engineering	<p>Doctor of Science in the field of Measurement Engineering.</p> <p>Experience of supervision of the students' theses: theses of the Master's students.</p> <p>Experience of research activities: preparation of the proposals for external funding for tenders, at least 5 years of project activities in the research area of brain neuroprotection technologies, involvement in scientific networks, at least 5 years of experience of preparation of high-level scientific publications in Q1-Q2 journals with impact factor, at least 5 years of experience of participation in international conferences presenting research and technological development results.</p> <p>Knowledge of specific technologies: theoretical and practical knowledge of transcranial Doppler sonography, ability to operate the transcranial Doppler device adapted for non-invasive pressure measurements. Ability to work with ultrasonic medical scanners via a transorbital acoustic window.</p> <p>Work experience with specific equipment: at least 5 years of experience of experimental research in the laboratory and clinical studies at the intensive care, ophthalmology units using the cerebral blood flow autoregulation monitoring device via the transorbital and transtemporal acoustic windows.</p> <p>Additional required experience and competences: biomedical signal processing and analysis using the MATLAB software package, statistical data processing and analysis using SPSS and MedCalc software packages, general knowledge in the areas of neurobiology, human anatomy and genetics.</p>