

PROF. K. BARŠAUSKAS ULTRASOUND RESEARCH INSTITUTE

Department	Job position	Part of FTE	Science field	Required competencies and experience
Laboratory of Numerical Simulations	Senior Researcher	1.0	Measurement Engineering T010, Electrical and Electronics Engineering T001	<p>Doctor of Science in the field of Electrical and Electronics Engineering.</p> <p>Experience of research activities:</p> <ul style="list-style-type: none"> - at least 5 years of research work experience; - experience in the areas of ultrasonic signal processing, ultrasonic tomography and reconstruction algorithms; - implementation of international research projects; - performance of national and/or international research works; - preparation of national and/or international research project proposals. <p>Knowledge of specific technologies:</p> <ul style="list-style-type: none"> - knowledge of the development of software systems for ultrasonic measurement systems; - knowledge of measurement technologies based on the use of ultrasonic directional waves. <p>Work experience with specific equipment:</p> <ul style="list-style-type: none"> - ANSYS - ABAQUS; - ULTRALAB; - data analysis and processing package MATLAB; - graphic package SolidWorks. <p>Additional required experience and competencies:</p> <ul style="list-style-type: none"> - preparation of scientific publications for foreign publishers' journals with an impact factor; - participation in international scientific conferences; - knowledge of signal processing methods in Lamb waves and ultrasound physics for analytical models; - development of ultrasonic measurements and non-destructive tests applicable for the monitoring of large composite objects using integrated converter networks; - knowledge of X-ray tomography image processing methods; - work experience with the ultrasonic phased array, immersive research and air-gap measurement systems; - upskilling certificates; - educational activities.