

PROF. K. BARŠAUSKAS ULTRASOUND RESEARCH INSTITUTE

| Department | Job position | Part of FTE | Science field | Required competences and experience |
|---------------------------------------|------------------|-------------|--|---|
| Laboratory of Ultrasonic Measurements | Researcher | 1,0 | T 010 Measurement Engineering, T001 Electrical and Electronics Engineering | <p>Doctor of Science in: the field of Measurement Engineering.</p> <p>Experience of research activities:</p> <ul style="list-style-type: none"> - At least 5 years of research work experience; - Experimental experience of ultrasonic measurement and non-destructive tests; - Knowledge and experience in the area of digital signal processing methods; - Experience of modelling of the propagation of ultrasound waves in various environments using computational methods; - Experience of participation in the national and international scientific projects; - Experience of preparation of the project proposals for research works. <p>Knowledge of specific technologies: ultrasonic measurement technologies.</p> <p>Work experience with specific equipment:</p> <ul style="list-style-type: none"> - MATLAB, - Work experience with ultrasonic measurement and phased array systems. <p>Additional required experience and competences:</p> <ul style="list-style-type: none"> - Preparation of scientific publications for the journals of foreign publishers; - Qualification improvement certificates; - Educational activities. |
| Laboratory of Numerical Simulations | Chief Researcher | 1,0 | T 010 Measurement Engineering, T001 Electrical and Electronics Engineering | <p>Doctor of Science in: the field of Measurement Engineering.</p> <p>Pedagogical experience:</p> <ul style="list-style-type: none"> - In the area of ultrasonic measurement and non-destructive tests; - In the area of signal and data processing; - In the area of sensors and their networks. <p>Experience of giving lectures in the following languages: English language.</p> <p>Experience of research activities:</p> <ul style="list-style-type: none"> - At least 15 years of research work experience; - Experience in the areas of ultrasonic signal processing, ultrasonic tomography and reconstruction algorithms; - Implementation and management of international research projects; - Preparation of international research works and project proposals; - Participation in the work of committees and commissions; - Participation in expert and peer-review work. <p>Knowledge of specific technologies:</p> <ul style="list-style-type: none"> - Knowledge of the development of software for ultrasonic measurement systems; - Knowledge of the measurement technologies based on the use of ultrasonic directional waves. <p>Work experience with specific equipment:</p> <ul style="list-style-type: none"> - MATLAB, - ULTRALAB, - Experience of analysis of the data received using the MATLAB, ULTRALAB, TECSCAN and laser systems. <p>Additional required experience and competences:</p> <ul style="list-style-type: none"> - Knowledge and skills in the area of acoustics; - Knowledge of the physics of ultrasound. |