

INSTITUTE OF MECHATRONICS

Department	Job position	Part of FTE	Study field	Science field	Required competences and experience
Dynamics Laboratory	Senior Researcher	0,5	E06 Mechanical Engineering	T009 Mechanical Engineering	<p>Doctor of Science in the area of Mechanical Engineering.</p> <p>Pedagogical experience: in the area of technologies related to mechatronics.</p> <p>Experience of giving lectures in the following languages: English language.</p> <p>Experience of supervision of the students' theses: second and third study cycle.</p> <p>Experience of research activities: experience of preparation of the proposals of national and/or international research projects with allocated external financing for tenders, experience of participation in national and/or international R&D projects in the area of mechatronics.</p> <p>Knowledge of specific technologies: experience of development and research or macro- and micro-mechatronic systems, mathematical modelling and experimental validation.</p> <p>Work experience with specific equipment: work experience with the engineering modelling software Ansys, LS-Dyna, work experience with laser Doppler.</p> <p>Additional required experience and competences: experience of traineeship at foreign research institutions or participation in the activities of international organisations, participation in the activities of the committees coordinating the study process at the university.</p>
Biomechatronics Laboratory	Researcher	1,0	E06 Mechanical Engineering	T009 Mechanical Engineering	<p>Doctor of Science in the area of Mechanical Engineering.</p> <p>Pedagogical experience: in the area of technologies related to mechatronics.</p> <p>Experience of giving lectures in the following languages: English language.</p> <p>Experience of supervision of the students' theses: first and second study cycle.</p> <p>Experience of research activities: experience of preparation of the proposals of national and/or international research projects with allocated external financing for tenders, experience of participation in national and/or international R&D projects in the area of mechatronics.</p> <p>Knowledge of specific technologies: experience in the area of biomechatronics, development and testing of health care equipment and certification of medical devices.</p> <p>Work experience with specific equipment: Qualisys, Comsol, SolidWorks.</p> <p>Additional required experience and competences: experience of participation in clinical trials with human subjects, stages of the development of medical devices, experience of their development and certification under the directive MEDDEV.</p>