

Scientific supervisor	
Name	Bartosz Leszczyński
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Department	Medical Physics Department
Laboratory	Laboratory of Microcomputed Tomography
Group webpage	www.zfm.if.uj.edu.pl/en_GB/grupy-badawcze/mikrotomografia
Proposed research topic	
<i>Soft tissue study - micro-CT workflow</i>	
<p>The internship will allow the candidate to familiarize with the technique of microcomputed tomography, in particular with the preparation of biological samples, including soft tissues. The trainee will learn the sample fixation and contrast between individual tissues enhancing techniques. He/she will get acquainted with the methods of minimizing artefacts during the image reconstruction procedure.</p> <p>Practices will focus on the optimization of the experiment with animal tissues - from fixation to analysis of results. The aim of the optimization will be to develop a list of subsequent actions for an efficient and error-free measurement procedure.</p> <p>The result of the internship will be the student's familiarity with work in the pre-clinical imaging laboratory and a measurement protocol that can be used in laboratory classes with students.</p>	
Main research tool	
Micro-CT scanner Bruker SkyScan 1172	
Additional requirements to the candidate	
<ul style="list-style-type: none"> - a complete course in physics or equivalent - at least intermediate knowledge of English 	
Possibility to continue student internship in the form of:	
Diploma thesis (master's or bachelor's degree)	X
PhD study	