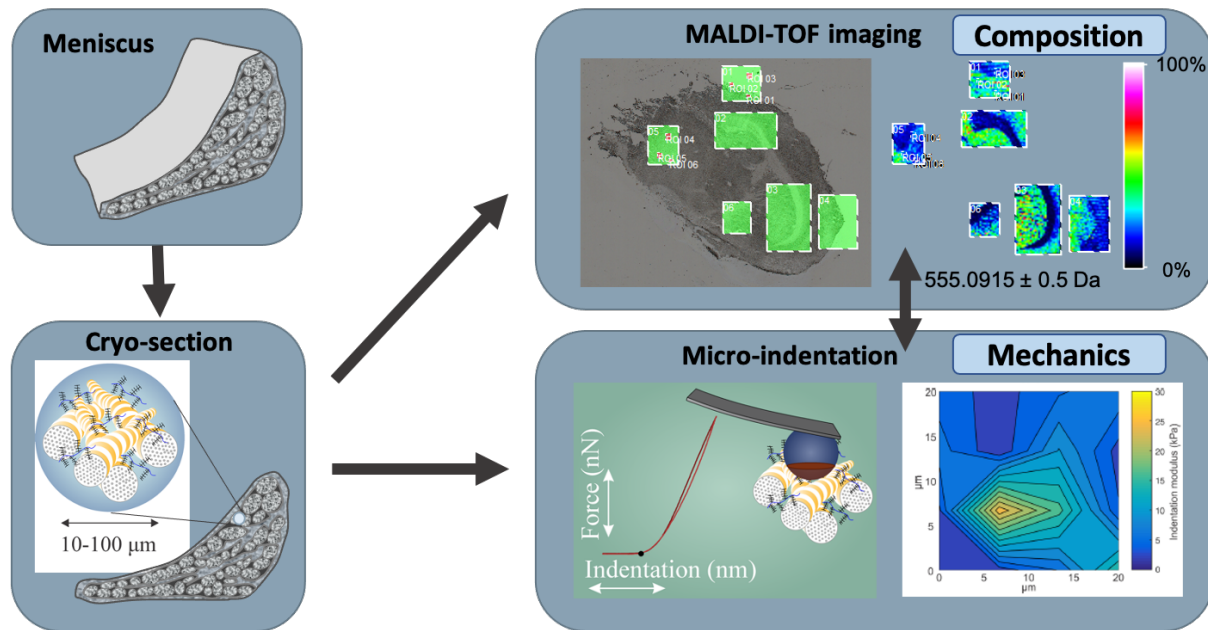




Institute of
Lightweight Design and
Structural Biomechanics

Open Position - University Assistant in Biomechanics and Proteomics



Position and Tasks: The Institute of Lightweight Design and Structural Biomechanics (ILSB) of TU Wien invites applications for the position of a University Assistant (30h/week) in the area of biomechanics and proteomics.

The successful candidate will conduct research towards a PhD thesis. In particular he/she will investigate healthy and degenerated meniscal tissue micro- / nano-mechanics using atomic force microscopy, spatially resolved micro-indentation and dedicated existing custom-made devices. Composition will be investigated via spatially mass-spectrometry methods under supervision of Prof. M. Marchetti-Deschmann of the Institute of Chemical Technologies and Analytics of TU Wien.

After successfully establishing correlated mechanics and compositional datasets, a further step would be to compare retrieved data, to chemical magnetic resonance images (MRI) available through a clinical partner. In the long run we envision this to become a tool for early detection of meniscal degeneration and osteoarthritis.

Your Profile: We are looking for an individual with a completed MSc in Biomedical Engineering, Physics, Chemistry or a related discipline. Skills and knowledge in biomechanics, chemical analysis and programming are of advantage. Very good English language skills.

Further information: For informal discussions contact Professor Philipp Thurner, philipp.thurner@tuwien.ac.at

How to apply: submit applications via the TU Wien job portal no later than April 21 2022 <https://jobs.tuwien.ac.at/Job/178494>