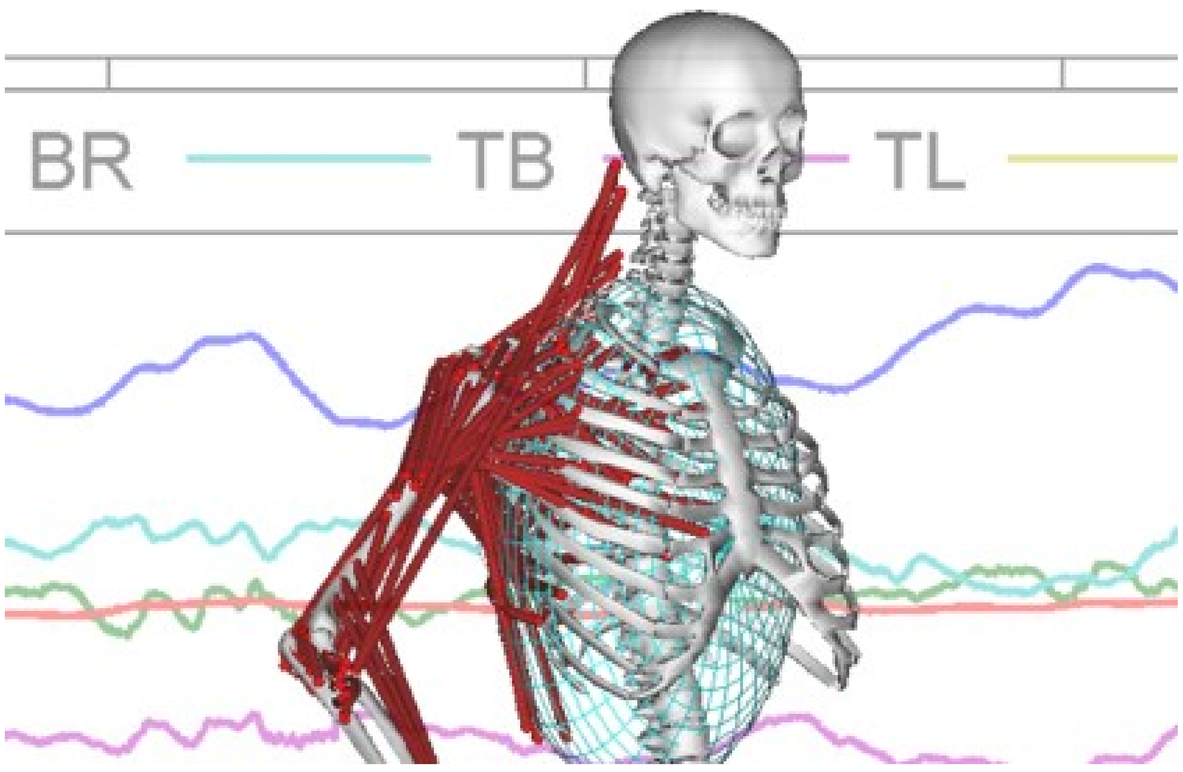
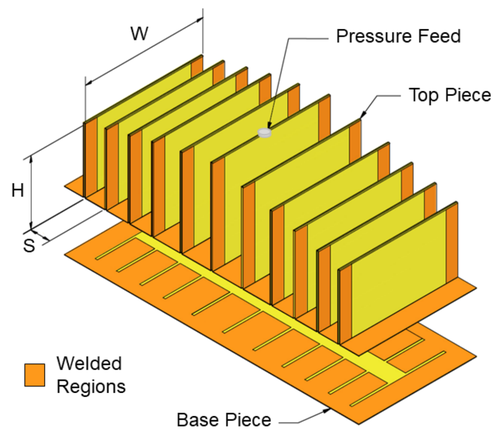
CELEBRATING 100 YEARS School of Engineering

1495 UNIVERSITY OF ABERDEEN

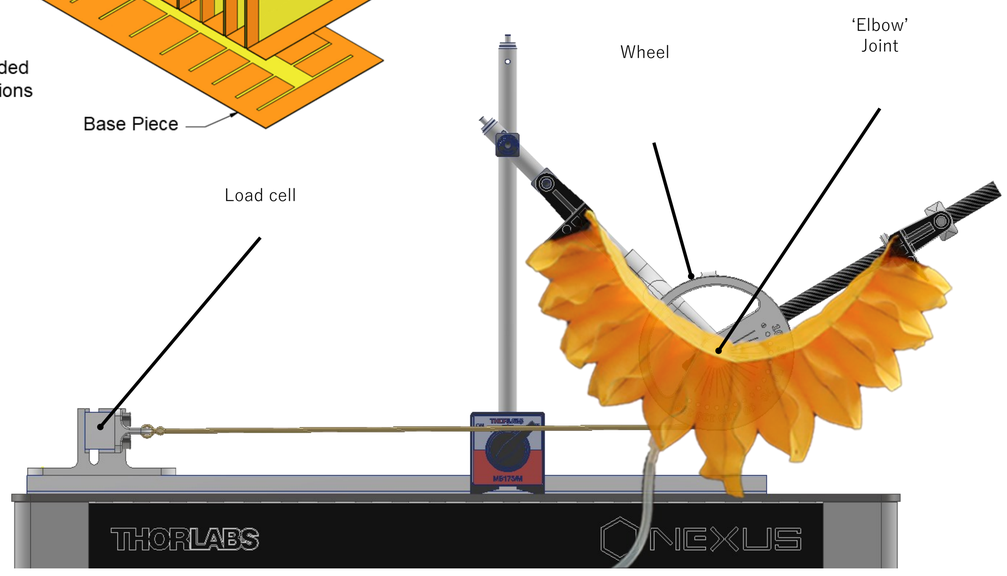
Biomechanics, rehabilitation engineering & soft robotics



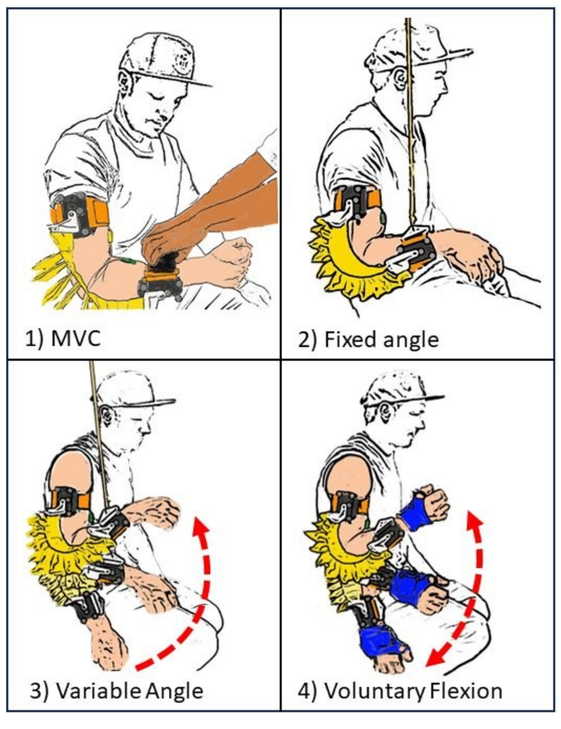
Personalised musculoskeletal models of the human skeleton are used for assessment of function, understanding disease and developing treatments (Contact: Prof Ed Chadwick).



Development and testing of novel soft robotic actuators in our dedicated laboratory. (Contact: Dr Elena Giannaccini)

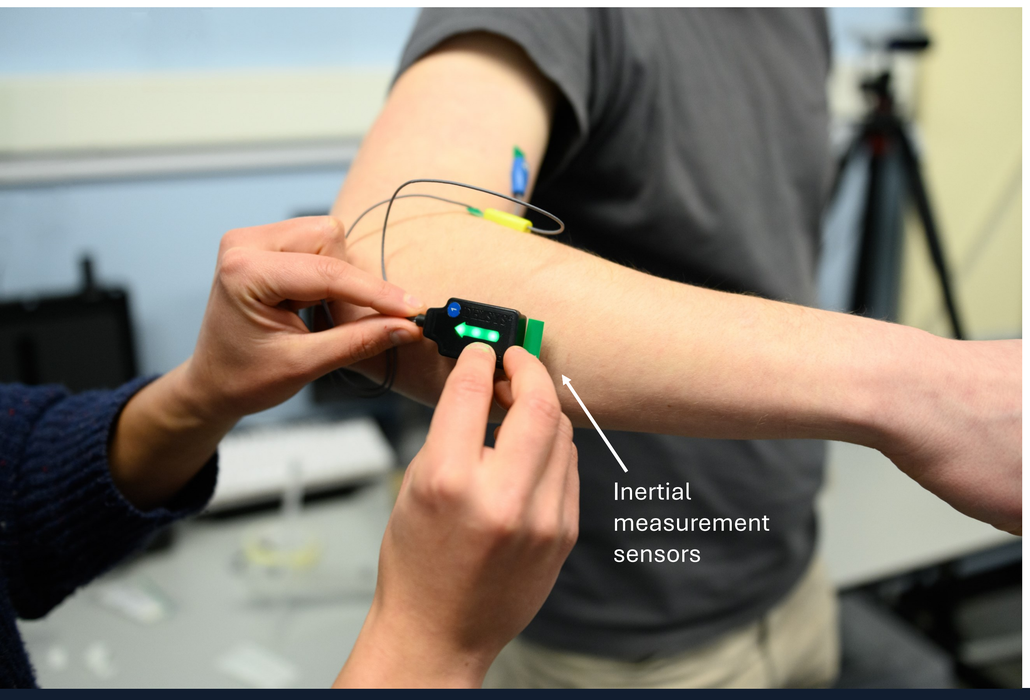


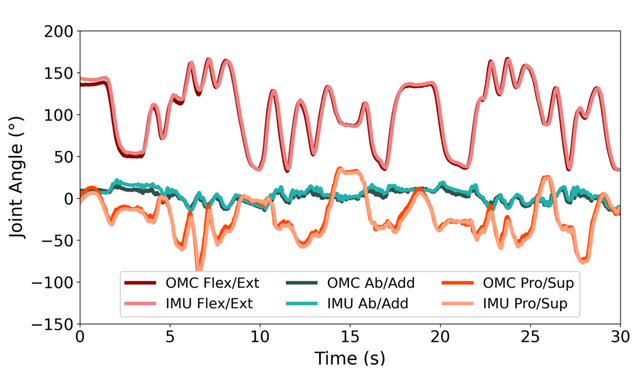
Our work goes from initial design and development, through benchtop testing, to user testing in the biomechanics lab.



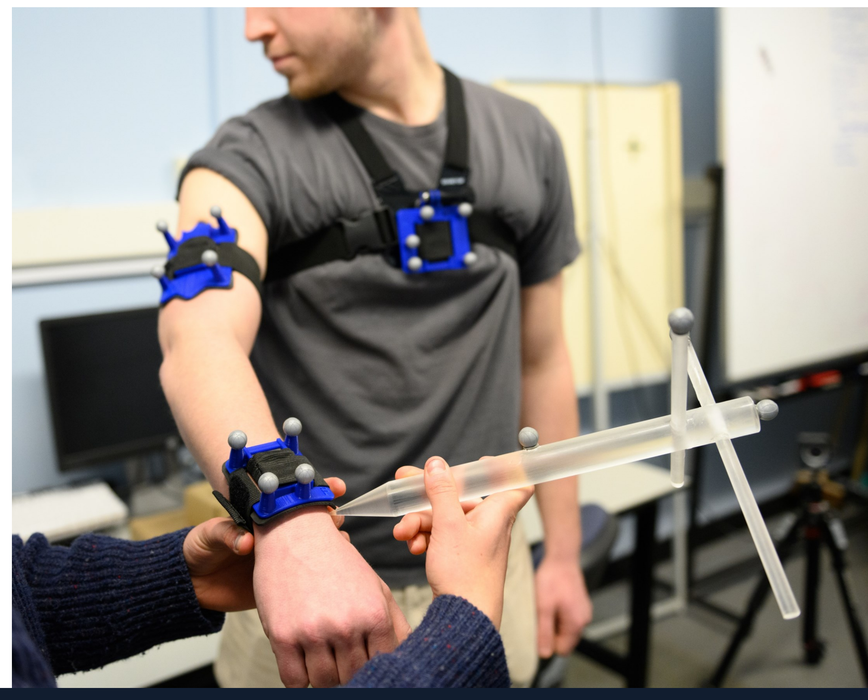
User testing of prototype devices is carried out in our biomechanics lab, where we focus on human movement analysis, featuring a 10-camera opto-electronic motion capture system.

A novel soft-robotics based device to assist in arm rehabilitation in people who've had a stroke was recently featured on the BBC.





Optimisation of wearable measurement systems for clinical use focusses on improving accuracy and reliability to build trust.



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