

Prof Markus O Heller Phd Dipl.-Ing. (aer)

Professor of Biomechanics

Centre Partner Institution – University of Southampton

After receiving an MSc degree in aeronautical & astronautical engineering (University of Stuttgart), Markus obtained a PhD in human biology (University of Ulm) and a lecturer ship in experimental surgery (Charité – Universitätsmedizin Berlin, Germany) focussing his career on understanding the key drivers of the loads acting within the musculoskeletal system.



His work aimed at improving the practice and care of joint and trauma surgery is highly cited and has been recognized by numerous prestigious international awards from e.g. the Orthopaedic Research Society (ORS) and the European Society of Biomechanics (ESB).

More recently, his work developed improved methods to capture skeletal kinematics for unravelling critical load-function relationships and characterizing functional status across disease stages in osteoarthritis and osteoporosis alike.

Since 2012, Markus is full professor of biomechanics at the University of Southampton where his research is facilitated through a number of local multidisciplinary collaboration initiatives. These include the Southampton Musculoskeletal Research Unit (a joint venture funded by Southampton University Hospitals Trust and the University), the University's Health Technologies Strategic Research Group for which he is serving as a co-chair, as well as the Institute for Life Sciences (www.southampton.ac.uk/ifls).

<http://www.southampton.ac.uk/engineering/about/staff/moh1m11.page>