

## Fully funded PhD studentship: **Tissue biomechanics**

This exciting research opportunity is in collaboration with Smith and Nephew and will be undertaken within one of the world's leading Wound Care Research Clusters, combining world-leading academia and industry with the aim of developing scientific insights and innovative treatments for advanced wound care.

Wounds that fail to heal are a worldwide unmet clinical need. Current therapies are often ineffective, largely because not enough is known about fundamental tissue biomechanics, normal wound healing or what goes wrong in pathological wounds. This project will involve investigations into normal tissue properties and biomechanics, and the biomechanics of wounds under different therapies and as healing takes place. It will be focussed around the development of computational (finite element) models of normal tissue structures and simulations of the different stages of wound development and healing, supported by experimental models.

You will join a cohort of seven other multi-disciplinary PhD students working towards the common goal of applying cutting-edge research techniques to better understand and develop new ways to improve wound care. The Cluster incorporates a pool of experienced supervisors who are experts in biomedical engineering, wound healing, biomedicine and chemistry. All projects also include industry supervisors and provide unique industrial training opportunities within Smith and Nephew.

### More information ...

The position is open to UK or EU applicants only, who should hold a good undergraduate degree (minimum 2(i)) in mechanical or biomedical engineering, or other relevant science degree. The studentship includes generous stipend (living expenses) at the UK Research Council rate and tuition fees.

If you are interested and would like further information, or guidance about eligibility and the application process, please contact Professor Michael Fagan ([m.j.fagan@hull.ac.uk](mailto:m.j.fagan@hull.ac.uk)), Medical and Biological Engineering Research Group, for more information.