PhD Position in Biomedical / Clinical Engineering

The UCD Centre for Biomedical Engineering and Enable Ireland are seeking applicants for a PhD position in Biomedical / Clinical Engineering. Enable Ireland will co-fund the PhD student under the Irish Research Council employment-based postgraduate programme (http://www.research.ie/scheme/employment-based-programme-2017).

Customised wheelchair seating solutions are essential for people whose posture and physiological function are in jeopardy due to underlying neurological impairments which compromise their independent mobility. The overarching objective of this project will be to develop and implement a proprietary manufacturing process for custom contoured wheelchair seating solutions. This process should meet the major requirements of customised seating: providing postural support and biomechanical correction; optimising seat interface pressure distribution; optimise heat & moisture transfer characteristics; being safe for occupied transport in a vehicle, while remaining competitively priced by reducing labour costs. The process should consider recent advances in manufacturing processes including additive manufacturing techniques and patient-specific 3-D surface scanning.

The candidate should have attained a 2H1 or 1st class Honours Bachelors or Masters degree in Mechanical or Biomedical engineering (or cognate discipline) as well as having a demonstrable interest in Clinical engineering. Interested parties should email a CV and cover letter by January 20th to: aisling.niannaidh@ucd.ie.

Start Date: 1st Oct 2017.

Supervisors: Dr. Aisling Ni Annaidh (UCD) and Mr. John Tiernan (Enable Ireland SeatTech).