

## Academic Staff Member Election 2020

### Peter Hoskins

Professor of Medical Physics and Biomechanics

This is my application for the academic staff vacancy on the University Court. I believe that my wide-ranging experience locally and nationally is relevant to this position. I am keen to undertake this role. I would bring to this post principles which I have worked to throughout my career; excellence, openness, transparency, integrity, honesty, fairness and respect.

I am Professor of Medical Physics and Biomechanics within CMVM. I have had associations with Edinburgh University for 36 years; for 18 years via an honorary appointment while in the NHS and for the last 18 years as an employee. I obtained my PhD (1991), DSc (2009) and PGCert (2012) from Edinburgh University. I have been involved in research (143 papers, >£3M funding as PI, 20 research associates, 20 PhD students completed, h-index [google] 40) and teaching (Programme Director MSc Biomechanics 2010-2014; current Programme Champion MSc Medical Physics; textbooks in 'Diagnostic Ultrasound Physics and Equipment [3<sup>rd</sup> ed]' 2019, 'Cardiovascular Biomechanics' 2017, 'Academic Practice – a Handbook for Medical Physicists and Bioengineers' 2017).

I have links with all 3 Colleges of the University. I am a Professor within the Centre for Cardiovascular Sciences in CMVM with research interests in new diagnostic techniques for cardiovascular disease. This has involved medical imaging (ultrasound, MRI) and patient specific modelling (PSM, integration of 3D medical imaging with computational modelling). The work has been multidisciplinary and I have brokered collaboration with academics across the University including in Medicine, Physics, Engineering, Chemistry and the MRC Human Genetics Unit. The work on patient specific modelling which I led provided an early stimulus for the growth of biomedical engineering in Edinburgh in CSE. For the last 20 years half my research group have been based in Engineering where I am an associate member of the Institute for Bioengineering. I undertook my PGCert in University Teaching in CAHSS, and for the last 5 years have sat on the annual CAHSS Promotion Panel as union (UCU) rep.

I have relevant experience on the Board of Trustees of my professional body (Institute of Physics and Engineering in Medicine, IPEM) and my main scientific society (British Medical Ultrasound, BMUS). I was Board member for 8 years for BMUS (Hon Secretary 2012-13), and for 3 years for IPEM (Acting President Apr-Aug 2017). For both IPEM and BMUS I sat on the Finance and Business Committees. For BMUS I was heavily involved in the scientific work of the society (eg. chairing working groups and conferences) and in formalising society procedures (eg. helping rewrite the constitution). For IPEM I expanded the Institute's remit to incorporate bioengineering; brokering relations with the major bodies concerned with bioengineering (Bioengineering Society, Institution of Engineering and Technology, Institute of Mechanical Engineers).

I have a wide experience across all 3 Colleges in the University over a long period and would be happy to use this experience positively for the University, if appointed as an academic member of the Court.