Research Associate or Research Assistant in Biomedical Engineering

Department of Mechanical Engineering – University College London

Roadmap for the Digital VPH Patient

Starting Salary: £27,907 - £31,905 (incl. London allowance)
Duration: Fixed Term appointment for One (1) year with the possibility of an extension.

The Project: The project "DISCIPULUS" aims at the grand challenge of writing a Roadmap for the 'Digital VPH Patient'. The 'Digital VPH Patient' is an avatar of the models and individual data that allow health prediction and disease treatment when the digital data of a citizen needs to avail itself of health services. In essence, the 'Digital VPH Patient' constitutes a revolutionary Clinical Prediction and Decision Support System.

To realise this vision, DISCIPULUS will develop a sound ICT research and innovation roadmap, informed by consultation and engagement of diverse groups from modellers and technology developers to end users, healthcare providers and regulators. The final goal is to deliver a roadmap for a single, universally useful, all-encompassing VPH-based avatar. To prepare for this, DISCIPULUS will consolidate relevant RTD results by examining critically the state-of-play of both research and innovation throughout the VPH Community. It will capture and quantify the needs of stakeholder communities, particularly those of clinicians and patients, which are key for the crafting of a successful, usable Digital Patient. The structure of DISCIPULUS has been designed to optimise interactions between partners. Technical activities (analysis of scientific/technical challenges, translation/clinical scenarios) & roadmap production are facilitated by operational activities (management, community building/engagement, dissemination). The five consortium partners, supported by global experts, will assemble all the expertise needed to assure excellence of the final roadmap. DISCIPULUS will last for 18 months. A strong impact is anticipated on EU leadership in VPH research, industrial exploitation, quality and sustainability of future healthcare.

For information about the VPH initiative, please go to: www.vph-noe.eu

Eligibility: Applicants should have a first degree (equivalent of 2:1 or above) in a numerical discipline (mathematics, physics, engineering, computer science) or medical/biological sciences (vascular biology, physiology, medicine) and a PhD is preferable. Excellent organisational, interpersonal and writing skills are a must. Relevant experience (as a developer or user) with models in clinical applications, computational biology, systems biology, bioengineering or closely related areas gained as part of a multidisciplinary team conducting experiments and/or developing models in an industrial, academic or clinical environment would definitely be an advantage. Applicants must enjoy working in an interdisciplinary group as it is expected that the successful candidate will work in a diverse and multicultural environment and should be able to collaborate with relative ease with professionals in different disciplines to write a high quality and scientific based roadmap.

Closing Date and Start Date: 05th of Septembert 2011 and 1st Oct 2011 (or later by agreement).

Contacts: Informal enquiries can be made, in confidence, to ***Dr. Vanessa Diaz*** (v.diaz@ucl.ac.uk). Interested applicants should make an online application at http://www.ucl.ac.uk/hr/jobs