

MTID Clinical Director – EOI

Dear colleagues,

The School of Healthcare Enterprise and Innovation in the Faculty of Medicine is seeking expressions of interest from colleagues across the University Hospital Southampton to be the Clinical Director for a new programme entitled: **MSc: MedTech Innovation & Design (MTID)**. This programme is unique to the UK and has been co-developed with colleagues from Johns Hopkins University in the US and based on their highly successful Bioengineering Innovation & Design programme. This is funded role and will pay for up to 3 Programmed Activities per week for 1 year in the first instance, with the possibility of an extension after review.

About the programme

This programme brings together students from various disciplinary backgrounds to design new medical technologies to address significant clinical problems, whilst strengthening interdisciplinary skills and embedding innovation. The programme is designed for those with various disciplinary backgrounds (either engineering, industrial design, medical/clinical/AHP, computer science, human/biological science or healthcare backgrounds, or those from a global health or social science), but above all those who have a strong interest in healthcare innovation or designing medical devices to solve real-world problems. It is a project-based programme with students working in small teams (4/5 in each) on two projects throughout the 1-year programme, one in the UK healthcare context (UHS) and one in global health. Students spend time immersed in the clinical practice in both the UK and then a low- or middle-income country (LMIC) to fully understand clinical needs and the practical implications of designing MedTech solutions where resources are different. They will strive to design solutions that are globally applicable, being mindful of clinical and contextual need, organisational factors, technical requirements, responsible innovation and commercial viability, and therefore have the biggest and broadest impact on healthcare globally.

This programme is a unique opportunity for students to learn how to identify clinical challenges, work up robust business plans and design solutions to solve those challenges. The use of technology in healthcare is now commonplace, however there is still so much unrealised potential for technology to transform the way we deliver healthcare, improving the speed, accuracy and appropriateness; improving outcomes and the quality of care delivered in hospitals. The programme will enable and empower students to be clinically aware, responsible and entrepreneurial innovators, and will provide them with the skills and knowledge to revolutionise healthcare and address global healthcare challenges.

This programme provides an interdisciplinary, authentic strategy of learning and the ability to directly apply that learning into two projects that embed equity, diversity and inclusion throughout the design, development and implementation of Medical Technologies, and that map to the United Nations Sustainable Development Goals, specifically Goal 3 (Good Health & Wellbeing), Goal 9 (Industry, Innovation & Infrastructure), Goal 10 (Reduced Inequalities), Goal 12 (Responsible Consumption &

Production) and Goal 17 (Partnerships for the Goals). This commitment is achieved through the strategic and central tenets of 1) Responsible Innovation in Health Technology and 2) Responsible Business Development & MedTech Commercialisation, and our commitment to applications of Medical Technology into a global health context throughout this programme. Responsible innovation in Health Technology is a core value within the School of Healthcare Enterprise & Innovation, supporting innovators to design-out waste, being mindful of the materials used to ensure the end-of-life of devices do not add to the burden of medical waste. Importantly, we advocate that Responsible Innovation and Responsible Entrepreneurship be embedded throughout medical device design and business development to ensure they add environmental, social and economic value. Students will learn to embed these principles throughout the programme and within their future careers.

Requirements of the Role

As Clinical Director you would be the principal liaison between UHS and the programme. You will be required to represent and network on behalf of the programme team, for example at Medical Grand Rounds, Research Leaders Programme, and interfacing with clinicians/clinical teams.

You will work alongside the Programme Director to organise MTID clinical placements in UHS, working with departments to help schedule the placements. An integral part of this role will be your ability to network with colleagues in UHS on behalf of the programme, becoming an engaged and enthusiastic champion. To excel in this role, you will proactively engage with potential clinical teams and mentors, identifying opportunities for placements in future years and supporting the placement hosts fully to get the best out of the student projects.

You will support a student project team each year through direct mentorship, asking critical questions to help them justify their decisions and carefully challenging their logic, supporting them to identify gaps in their knowledge and learning opportunities. You will also recruit a team of clinical mentors; one from each clinical team, and work with them to support their development. You will liaise between these mentors and clinical teams, providing a point of feedback between them and the wider programme team.

You will be a critical part of the programme team and involved in strategic planning for the overall programme alongside the team members based at the Science Park (including academic staff and business mentors). You will be fully integrated into the programme team, having the opportunity to contribute to grants, sponsorships and philanthropic fund raising to support students who need it with scholarships and fellowships to attend the programme.

About the candidate

The ideal candidate would be an established leader in their respective clinical field and have experience of, or passion for translational health innovation, MedTech entrepreneurship and/or Bioengineering. Experience in Education is not necessary, but a strong background in leadership is. Being a confident and engaging communicator

and networker is essential, and examples of where you have influenced or managed change would be extremely beneficial to this role.

We will start delivering the programme in October 2025, so the Clinical Director will have the next year to arrange placements, engage colleagues, showcase and advocate on behalf of the programme, and seek out and develop a community of engaged and enthused clinical mentors for the programme.

This programme will sit as a core training programme within the Connected Healthcare Incubator Accelerator (CHIA) at the University of Southampton Science Park at Chilworth and there will be significant interaction between the students and the CHIA community, including the business and investor communities.

To apply, please send a CV with a 1-page covering letter summarising your background and interest in applying for the role by 30th November to HEIHoS@soton.ac.uk. Please also email if you would like to discuss the role further, or for any clarification.

Please note, applicants must have the agreement of their line manager before applying.