



Design + Innovation Bootcamp 2022

Trauma + Orthopaedic Surgery

We invite you to register your interest in the 4 Day Design + Innovation Bootcamp combining human centred and medical device design disciplines.

It will focus on devices, services and user/patient experiences in the field of Trauma + Orthopaedic Surgery.

Here, you will:

- Learn valuable design methodologies and strategies that will transform your approach to problem solving and innovation
- Engage in multidisciplinary challenges with your Trauma + Orthopaedic colleagues
- Work with experts in the field of medical device and human centred design

The bootcamp is open to **consultants, NCHDs, nurses and HSCPs**. CPD/CEU points are awarded.

Schedule

Day 1+2

09:30 – 17:00

Wed 21 + Thurs 22 Sept 2022

RCSI, Dublin

Day 3

09:30 – 17:00

Wed 26 Oct 2022

TBC, Dublin

Day 4

09:30 – 17:00

Wed 16 Nov 2022

Pillar Centre, Mater Hospital, Dublin

Fee

€1200 (Subsidised to €200 for HSE employees)

Content*

*Subject to change

	DAY 1 Wed 21 Sept RCSI	DAY 2 Thurs 22 Sept RCSI		DAY 3 Wed 26 Oct TBC		DAY 4 Wed 16 Nov Pillar Centre
AM Session 09:30 – 13:00	<p>INTRO + PRACTICE CHALLENGE</p> <p>Introduction to Design Thinking</p> <p>Introduction to the practice challenge</p> <p>Practice challenge RESEARCH</p>	<p>AUDIT + RESEARCH</p> <p>Learning reflections, projects introduction and teams</p> <p>AUDIT Introduction</p> <p>AUDIT Methods + Practice</p>	INDEPENDENT PROJECT WORK	<p>REFRAME</p> <p>Where are we now?</p> <p>REFRAME Insight development through data synthesis and focused problem framing</p> <p>IDEATE Brainstorming + concept building</p>	INDEPENDENT PROJECT WORK	<p>VALIDATE - PROTOTYPE</p> <p>Where are we now?</p> <p>EXPLOIT Maturing concepts through business modelling</p> <p>EXPLOIT Introduction to Intellectual Property + commercialisation discussion</p>
	LUNCH	LUNCH		LUNCH		LUNCH
PM Session 14:00 – 17:00	<p>PRACTICE CHALLENGE</p> <p>Practice challenge REFRAME</p> <p>Practice challenge IDEATE</p> <p>Practice challenge VALIDATE</p> <p>Practice challenge PITCH</p>	<p>AUDIT + RESEARCH</p> <p>RESEARCH Introduction Methods Practice</p> <p>Looking Ahead!</p>		<p>IDEATE</p> <p>IDEATE Concept development Visualisation</p> <p>VALIDATION Surface assumptions Prototypes/validation experiments</p> <p>Looking Ahead!</p>		<p>VALIDATE – TEST PLAN</p> <p>Preparing a pitch deck introduction</p> <p>Concept pitch deck</p> <p>Pitching and feedback</p> <p>Lessons learned</p> <p>Next steps</p>

Facilitators



Martin Ryan is a multi-award winning designer, educator and entrepreneur, currently holding a lecturing post in the Department of Product Design at the National College of Art and Design. While currently on a career break from Maynooth University, he is a permanent member of the faculty there at the Department of Design Innovation where he has held a number of key responsibilities and activities including: Director of Undergraduate Studies for Design Innovation and Programme Director for the BSc. in Product Design (2010-2021).

He is an active design researcher and co-editor of 'Iterations' design journal, Ireland's first peer reviewed design journal. He recently co-authored a book titled 'ARRIVE' which introduces a design innovation framework to deliver breakthrough services, products and experiences.

In addition, Martin delivers executive training and consultancy to various industries aimed at embedding innovation capabilities, building consumer insight and delivering innovation in new products and services. Clients range from insurance to healthcare and from leading technology companies to government agencies. Over the years he has claimed a number of national and international awards, notably including; the JEC World Innovation Award (Paris), Dyson Design Award and ISPO Volvo sport Design Award finalist (Munich).



Trevor Vaughn is a founding partner of Actionable Innovation, an assistant Professor of Design innovation at Maynooth University and Principal Investigator in the Maynooth University Innovation Lab (Mi:Lab). Mi:Lab is a HEA funded design-led lab, formed to explore and tackle higher education system challenges. Trevor is an expert in the Design-driven innovation process, and regularly works with public and private organisations in this area.

Prior to entering Academia, Trevor developed a number of radical and disruptive surgical innovations for global medical device manufacturers, among these, his work on single-site surgery for Olympus, helped see it named in the Cleveland Clinic's top 10 innovations of 2009.

Across his innovation career, Trevor has accumulated a portfolio of over 50 patents. Through his consulting work with Actionable, Trevor merges the theory and practice of Design, Anthropology, and Strategy, to help organisations navigate uncertainty and grow through human insight and discovery. Trevor was recently selected to be one of six experts on RTE's new innovation series 'The Big Life Fix' which aired to critical acclaim in March 2020.



Dr Derek John is Technology Transfer Case Manager at RCSI where his role involves supporting RCSI clinicians and scientists in the commercialisation of their research through licensing, collaboration and spin-out formations and the management and protection of the RCSI Intellectual Property portfolio.



Dr Steven Griffin is the Innovation from Healthcare Lead at the Heath Innovation Hub Ireland. He works closely with the healthcare community and academic partners from across a diverse range of disciplines to identify and investigate opportunities for innovation, and to progress projects based on unmet clinical needs.



spark@hse.ie



www.hse.ie/spark



@ProgrammeSpark