MD-TEC
Medical Devices Testing and Evaluation Centre

European Union
European Regional Development Fund

WORKSHOPS

Commencing February 2018, MD-TEC will host a schedule of workshops covering all aspects of medical device / technologies commercialisation with access to industry and academic experts. Please note that to be eligible for our support, your business must meet the definition of a **small to medium sized enterprise and** be located within the **Greater Birmingham and Solihull Local Enterprise Partnership (GBSLEP).**

Topics to be covered include:

Clinical Investigations for Medical Devices

This workshop will allow you to have a detailed look at which medical devices need a clinical investigation, how to apply for regulatory body approval, what a medical device trial entails and costs involved. As such, you will gain an understanding of the requirements the new MDR (Medical Device Regulations) poses for clinical investigations of medical devices and how this will affect your company.

Navigating the MDR (Medical Device Regulations)

The MDR (Medical Device Regulations) and IVDR (In Vitro Diagnostic Medical Devices Regulations) are a set regulations aimed specifically at this sector and introduces a framework by which safe medical devices can be introduced onto European market. The aim of the workshop is to show you a way of navigating the regulations and the CE marking process, helping you to translate your idea to a medical device.

The Role of Human Factors Engineering for Development of Medical Devices

This workshop will provide you with an overview of human factors engineering (HFE) for medical devices, involving more than just the ergonomics aspects. By performing usability studies, the manufacturer can assure design safety and its suitability for lay users, healthcare professionals or patients. By the end of this workshop, you will be able to distinguish between different types of usability tests and understand their integration in the product development cycle.

Drug & Device Discovery and Optimisation for Clinical Development

This workshop will give a holistic overview of key aspects of developing drug products and medical devices, including: building a network to triage and nurture ideas; the regulatory pathway; establishing safety; manufacturing at scale to clinical grade; and defining relevant measures of clinical success in trials. Critically, the talk will highlight how considering the abovementioned aspects early on through relatively simple lab experiments and engagement with relevant regulatory bodies can help companies and academics innovate and get to market faster, at reduced cost and with less risk. Finally, an overview of some of the commercial considerations of medical device development will be considered.

Device Testing Using Organotypic Culture Systems

University of Birmingham in collaboration with partner Institutions have recently developed organotypic models of musculo-skeletal tissues which will be discussed at this workshop. These platforms have the advantages of in vitro systems in terms of reproducibility, and adaptability, but with a biological complexity more similar to native tissues, displaying promise for use in many research areas, from bone replacement materials to pathological research

Please see overleaf for dates, registration details and contact information

DATES & REGISTRATION

28/02/2018 08:30 - 12:30	**THE ROLE OF HUMAN FACTORS ENGINEERING FOR DEVELOPMENT OF MEDICAL DEVICES** **Dr Tom Clutton-Brock & Dr Sinziana Popescu**
15/03/2018 08:30 – 12:30	**DRUG & DEVICE DISCOVERY AND OPTIMISATION FOR CLINICAL DEVELOPMENT** **Dr Richard Williams & Dr Anthony Metcalfe**
15/03/2018 13:00 – 17:00	**DEVICE TESTING USING ORGANOTYPIC CULTURE SYSTEMS** **Dr Alexandra Iordachescu**
10/04/2018 13:00 – 17:00	**THE ROLE OF HUMAN FACTORS ENGINEERING FOR DEVELOPMENT OF MEDICAL DEVICES** **Dr Tom Clutton-Brock & Dr Sinziana Popescu**
24/04/2018 08:30 – 12:30	**CLINICAL INVESTIGATIONS FOR MEDICAL DEVICES** **Dr Gillian McNab**
24/04/2018 13:00 – 17:00	**NAVIGATING THE MDR (MEDICAL DEVICE REGULATIONS)** **Dr Azad Hussain**
08/05/2018 08:30 – 12:30	**DEVICE TESTING USING ORGANOTYPIC CULTURE SYSTEMS** **Dr Alexandra Iordachescu**
08/05/2018 13:00 – 17:00	**DRUG & DEVICE DISCOVERY AND OPTIMISATION FOR CLINICAL DEVELOPMENT** **Dr Richard Williams & Dr Anthony Metcalfe**
22/05/2018 13:00 – 17:00	**THE ROLE OF HUMAN FACTORS ENGINEERING FOR DEVELOPMENT OF MEDICAL DEVICES** **Dr Tom Clutton-Brock & Dr Sinziana Popescu**
07/06/2018 08:30 – 12:30	**NAVIGATING THE MDR (MEDICAL DEVICE REGULATIONS)** **Dr Azad Hussain**
07/06/2018 13:00 – 17:00	**CLINICAL INVESTIGATIONS FOR MEDICAL DEVICES** **Dr Gillian McNab**
21/06/2018 08:30 – 12:30	**DRUG & DEVICE DISCOVERY AND OPTIMISATION FOR CLINICAL DEVELOPMENT** **Dr Richard Williams & Dr Anthony Metcalfe**
21/06/2018 13:00 – 17:00	**DEVICE TESTING USING ORGANOTYPIC CULTURE SYSTEMS** **Dr Alexandra Iordachescu**

- Location: Institute of Translational Medicine, Heritage Building (Old Queen Elizabeth Hospital), Mindelsohn Way, Birmingham, B15 2TH
- A full list of workshop dates can be found via our Eventbrite page (link below).
- If you wish to attend any of the workshops, please register your attendance at the below link:

www.eventbrite.co.uk/o/medical-devices-testing-and-evaluation-centre-md-tec-15996924068

- If you have any suggestions for future workshop topics, or have any general enquiries, please contact us on **MDTEC@uhb.nhs.uk**