

MeDe

Innovation

EPSRC Centre for
Innovative Manufacturing
in Medical Devices

RIGHT **PRODUCT**
RIGHT **PROCESS**
RIGHT **PATIENT**
RIGHT **TIME**



The MeDe Innovation Network exists to provide support to the medical device sector, including academic, industry and clinical members.

Dissemination of research and moving it along to adoption and commercialisation is central to our mission and we value input from those working across the medical device sector in the UK. The network aims to not only inform, but also to connect, enabling businesses, policy makers, academics and clinicians to share information, knowledge and ideas and debate the challenges and issues facing the community.

As a member of the Network, you will **benefit** from:

- > access to information about manufacturing research, from our Centre's research outputs, international partnerships, and clinical centres in medical device innovation throughout the UK
- > access to Technology Roadmapping techniques to help shape and inform future research needs
- > updates on sector news and events, through e-newsletters, network events and an annual conference
- > access to commercial opportunities arising from our work with the Medical Technologies Innovation and Knowledge Centre
- > being part of an influential contributor to the UK medical device landscape
- > marketing opportunities to highlight your organisation's news and events on the MeDe Innovation website

Membership is free and it's easy to join – contact us now.

mede-innovation.ac.uk
info@mede-innovation.ac.uk
+44 (0)113 34 30923



MeDe Innovation (The EPSRC Centre for Innovative Manufacturing in Medical Devices) researches and develops advanced design and manufacturing methods for the medical device sector.

Our innovative design and manufacturing advances focus on Class III medical devices for musculoskeletal disease, where the cost of device failure and need for throughout life reliability are high.

Growth of the sector looks set to remain at 10% worldwide for the foreseeable future – with Asia offering a significant opportunity with 30% predicted growth - and this is driving an increased demand for better reliability and lifetime performance of medical devices. Our research aims to answer this demand, underpinning the development of musculoskeletal medical device manufacture to provide methods of producing reliable, effective devices.

It will also support the development of the sector and satisfy the health service's requirement for new, innovative and cost effective treatment options. These devices – and manufacturing processes – will ensure that the patients of the future are provided with devices that offer enhanced standards of reliability and performance.

The Centre is a collaborative research project which brings together expertise from the universities of Leeds, Newcastle, Nottingham, Bradford and Sheffield as well as a range of expert clinicians from across the UK. Our 12 founding industry members are embedded within our research projects, with many more forming an industry-wide network.

MeDe Innovation (The EPSRC Centre for Innovative Manufacturing in Medical Devices) is part of a wider initiative funded by the UK's Engineering and Physical Sciences Research Council (EPSRC) aimed at maximising the impact of innovative research for the UK.

Each Centre has been set up to respond to a specific business need and will support existing industries as well as opening up new industries and markets in growth areas. Funded support from the EPSRC will be used as a platform from which the Centres can secure further investment from industry and other funders.

As well as working extensively with academic, clinical and industry partners, MeDe Innovation will maintain a close contact with the other Centres for Innovative Manufacturing which provides further opportunities for our research.

MeDe Innovation is a collaboration of five of the UK's leading universities, each with its own research strengths, which in combination provide a powerful platform upon which to build robust solutions to the challenges faced by medical device manufacturers.

The partner universities are:

- > University of Bradford
- > University of Leeds
- > University of Nottingham
- > Newcastle University
- > University of Sheffield

MeDe Innovation has been formed to support the medical devices sector in addressing some of its major challenges. This rapidly growing sector is experiencing strong demand for innovation in manufacturing processes, evolving environmental and regulatory requirements and calls for greater personalisation and increased reliability of medical devices.

Our research will focus on the development of advanced methods of functionally stratified design and near-patient manufacture, to deliver cost-effective processes to ensure that patients receive the right product – featuring an enhanced standard of reliability and performance - at the right time.

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MeDe Innovation is a collaboration of five universities and it is co-ordinated by an operational team based at the University of Leeds. If you'd like more information about our research, you're interested in joining our community or there's something you'd like to discuss, please do get in touch.

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The EPSRC Centre for Innovative Manufacturing in Medical Devices

c/o Institute for Medical & Biological Engineering,
University of Leeds, LS2 9JT

+44 (0)113 343 0923

mede-innovation.ac.uk

info@mede-innovation.ac.uk

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