



MARKET

Medtech



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CPI is here to help drive your medtech innovations forward and enable you to answer the demands of this changing market. Our expertise and industry connections cover the entire development cycle, supporting you from the initial idea through to adoption in healthcare.

CPI's medtech capabilities

- Product design, development & pilot manufacture under BS EN ISO 13485 accreditation
- Opto-electronics system design, test and validation
- Optical imaging systems development
- Development of spectroscopic and other optical diagnostic methods
- Development and pilot manufacture of wearable/flexible electronic systems
- Integration of sensor technologies into wearable electronic systems
- Full colour scanning, visualisation and additive manufacturing workflows
- Device testing and validation, including the use of human tissue samples and liquid radioisotopes
- X-ray and Gamma-ray imaging system development
- Development of custom light sources and illumination systems
- Mammalian cell culture
- Cell-based assay development
- Fabrication of nanoparticles
- Functionalisation and scale up of nano-materials or 2D materials (e.g. graphene)
- Formulation of custom coatings
- Optical characterisation of optical probes/markers for diagnostic assays or imaging (e.g. absorption or emission spectra, lifetime) from UV to 1400nm



Enabling medtech innovation

We are here to guide you through the successful commercialisation of your medical device. Our expertise is broad, with our scientists and engineers able to help you to develop your design concept, test and validate your device, and assist with scale up and manufacture.

With our extensive expertise in a range of manufacturing techniques, we ensure your device is designed for manufacturing from the outset. We can set up a pilot manufacturing line to produce small volumes of your device for clinical trials, and ensure a seamless transfer to full scale manufacturing before helping you get your device to market.

Complementing your medtech capabilities

We work closely with you every step of the way, listening to and understanding your distinct requirements so we can adapt to your evolving needs. We specialise in developing technologies in diagnostics, imaging and therapeutics. Data and connectivity underpins cutting edge healthcare, with our expertise in developing connected devices, we can enable you to deliver the next generation of digitally enabled medtech. This allows the transfer of knowledge across multiple technology areas and ensures we complement your current capabilities. We will equip your company with a community of technical and commercial innovation specialists, as well as access to our many facilities.

Accelerating medtech adoption

We accelerate your innovation cycle by helping you translate your ideas into commercial products. We can develop and assess your technology with you, ensuring it is compliant with all current legislation. Our strong links with healthcare partners enables us to assist in gathering the clinical and health economic evidence required for healthcare adoption.



Experts in the route to commercialisation

Our expertise in identifying and securing public and private funding for partners enables the right partnerships, connections and funding routes to be pursued at the right time. By working with your team, we can support you in the grant application process, co-write bid proposals, and through our established connections we can provide opportunities in consortium building with regional and national healthcare networks to help your business succeed.

Capabilities for development and scale-up

With a combination of world-class facilities and industry relevant expertise, we work with partners to bring their innovative ideas to market sooner, with reduced risk. The National Healthcare Photonics Centre is the cornerstone of our medtech capability. Companies can work alongside CPI staff in state-of-the-art laboratories for optics, imaging, design, validation, prototyping, manufacture and sampling. From this flexible facility, clients can take up a number of services, including office space within the centre to co-develop products with our staff using our facilities.

Along with CPI's established capabilities in formulation, flexible hybrid electronics, printable electronics, biotherapeutics and digital technology, we can provide a unique environment to develop your medtech solutions.

Let's innovate together

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