

# AMBER, SFI Research Centre for Advanced Materials and BioEngineering Research

AMBER is a dynamic, multidisciplinary partnership between world-leading material scientists, bioengineers and industry. We work collaboratively to address fundamental research questions and create solutions with impact for society in ICT, MedTech, energy and sustainable industrial technologies.

## Research Areas

AMBER is built upon an outstanding reputation in research supported by state-of-the-art infrastructure at our Advanced Microscopy Laboratory and Additive Research Laboratory. Our highly ambitious multidisciplinary research programme brings scientists and bioengineers together to work collaboratively in key areas to generate impact for society.

From 2019 – 2025 AMBER will build on the centre's Pillars of Expertise, into 4 fundamental research themes and 5 targeted research areas with industry.

## Targeted Projects

ICT Technologies & Devices	Sustainable Materials & Technologies	Medical Devices
Sensors & Diagnostics	Industrial Materials & Manufacture	

## Fundamental Research Themes

Materials for ICT	Materials for Energy	Materials for Health	Engineered Functional Materials
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## Underpinning Pillars of Expertise

2D & Emerging Materials	Modelling & Theory	Synthesis & Fabrication
Characterisation	Bionengineering	

A World Leading SFI Research Centre



## Facilities

- > Advanced microscopy and nanofabrication lab
- > Polymer development and characterisation lab
- > Photonics lab
- > Clean-room facilities
- > Metrology/spectroscopy
- > Additive manufacturing

## Industry and Commercialisation

AMBER is focused on driving innovation through excellent science and a vibrant culture of industrial engagement and commercialisation. Together, we contribute a pipeline of highly skilled graduates to the Irish STEM sector, creating jobs and economic growth.

We have over 40 industry partners.

Since 2013 AMBER has grown industry engagement from 18 companies to over 40

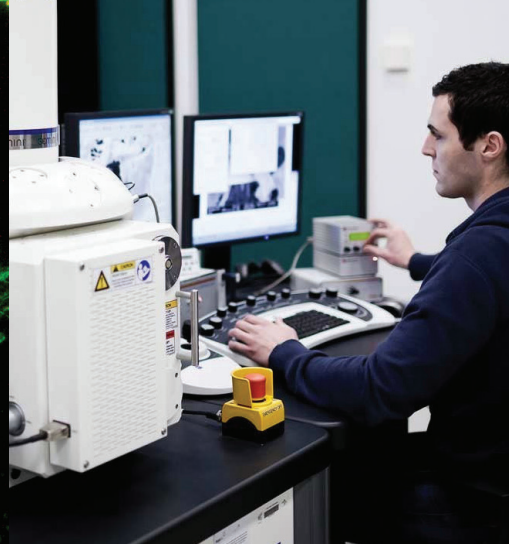
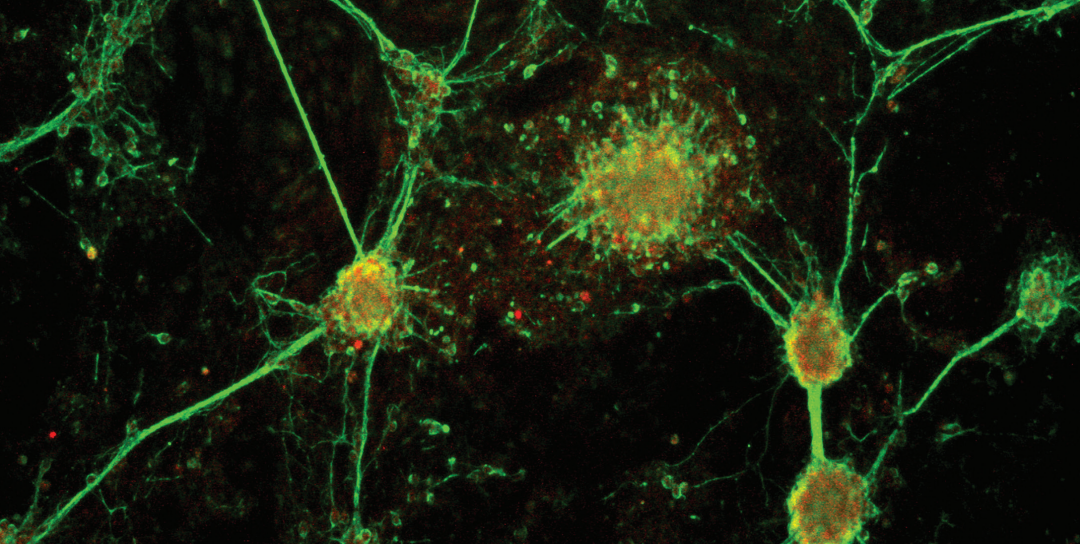


HOST INSTITUTION



PARTNER INSTITUTIONS





## AMBER Impact

The outputs of materials science and engineering research are all around us: from wearable health sensors, flexible phone screens and superfast computers, medical devices, drug delivery systems and regenerative medicine, sustainable packaging materials and better energy storage devices.

AMBER's Communication, Education and Public Engagement Programme aims to create dialogue between researchers and publics on materials science and bioengineering and its potential impacts.

From school-going children, young people and educators to policy makers, parents and community groups, our CEPE programme will engage in critical conversations around our work, inspire a new generation of scientists, (bio)engineers, designers and inventors, and ensure that access to the centres research is open to all.

## Key Contacts

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