

Business Engagement and Innovation

Faculty of Science and Engineering



New Innovation & Business Engagement Strategy



VISION

We will be recognised globally for the excellence of our people, research learning and innovation, and for the benefits our activities bring to society and the environment

MISSION

We will capitalise on the University's research and education strengths in engineering and natural sciences to deliver economic, social and scientific impact by building effective and sustainable partnerships with business, and facilitating translation of knowledge to drive innovation

VALUES

Knowledge, Wisdom, Inclusion, Courage, Pioneering Spirit



What is it?

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Why it is important to you?

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Motivational items	Benefit
Research income direct from industry	Access to funding
Research income from industry research via public funding bodies	
Access to materials	Access to in-kind resources
Access to equipment	
Access to research expertise	
Becoming part of a wider network	Learning
Applicability of research	
Information on industry problems & industry research	
Feedback from industry	
Seeking patents	Commercialisation
Personal financial benefit tied to spin-out/licencing	

Enhance your research capability, profile, reputation and career trajectory

FSE Opportunities (& challenges)

- The creation of Faculty Heads of Business Engagement in thematic areas
- The development of the new 'Our Future' University Strategy and associated Innovation Plan
- UK's Industrial Strategy published and the creation of the Industrial Strategy Challenge Fund
- The UK R&D Roadmap and the Government commitment to increasing the UK's investment in R&D to 2.4% of GDP – which requires both additional investment through public funding and a significant increase in investment by the private sector
- Creation of the Innovation Factory and the Northern Gritstone Fund
- The development of Innovation District (ID) Manchester
- Innovation GM
- (The impact of Covid-19 on industry and the HE sector)

Need to seize these new opportunities and meet FSEs ambitions for Innovation and Business Engagement; contributing to the delivery of the University's Innovation Plan

FSE I&BE Objectives

1. GROWING INCOME FROM BUSINESS THROUGH THE DEVELOPMENT OF RELATIONSHIPS AND THE TARGETING OF INCOME STREAMS

The Faculty will increase the number of students and staff engaged in growing both research income direct from industry, and other forms of income associated with industry engagement that deliver impact.

- 1.1 Building on existing relationships and engaging new partners
- 1.2. Targeting Funding Opportunities
- 1.3. Increasing Student and Staff Engagement with External Organisations
- 1.4. Maximising Recovery to Provide Sustainable Funding

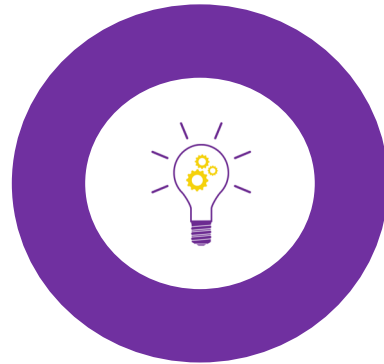


FSE I&BE Objectives

2. INCREASING KNOWLEDGE TRANSFER AND COMMERCIALISATION BY BUILDING AN INNOVATION ECOSYSTEM

The Faculty will encourage and enable an increasing number of students and staff to start and scale successful companies, and see their ideas and findings adopted and diffused through knowledge exchange and licencing opportunities. We will achieve this through:

- 2.1. Establishing an Innovation Academy to Drive Commercialisation, inc. a Manchester Accelerator Programme
- 2.2. Encouraging Invention Disclosures, IP Protection
& Licencing to 3rd Party Commercial Organisations
- 2.3. Developing Consulting Activities
- 2.4. Increasing Take-Up of Faculty CPD by Businesses



FSE I&BE Objectives

3. BUILDING SUSTAINABILITY INTO INNOVATION AND BUSINESS ENGAGEMENT

The Faculty will build long term sustainability of all Innovation and Business Engagement activity by developing effective structures, processes and governance to support growth and a timely response to opportunities, as well as developing marketing collateral with clear and concise messaging.

- 3.1. Enhancing Faculty Internal Communications
- 3.2. Refreshing Governance
- 3.3. Developing Clear Internal Processes and Support
- 3.4. Recognising and Rewarding Excellence in I&BE
- 3.5. Improving External Communications
- 3.6. Establishment of an Industrial Advisory Board
- 3.7. Building Environmental Sustainability
- 3.8. Reviewing and Reflecting



KPIs

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Continual increase in:

- ✓ Income arising from industry sources
- ✓ Income from collaborative research involving public funding
- ✓ Non-research income from industry
- ✓ The number of PhD projects with an industry sponsor
- ✓ The numbers of academics engaged with business (# & %)
- ✓ Number of staff and students engaged in innovation activities
 - staff spinouts
 - student spinins
 - students going onto work for SMEs
 - £ generated from licence deals

*** These measures need to be quantifiable, but first we need to establish what our current baseline is, then set KPIs**

How you can get involved?

- Complete the 2 minute FSE survey – *you only get out what you put in.*
 - Identify what workshops/training you would like to see
 - Identify how we can help you
- Engage in the forthcoming internal network meetings aimed to map out internal stake holders, current connections and capability



Thematic Heads of Business Engagement

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Advanced Manufacturing – Aravind Vijayaraghavan

Developing Sustainable & Circular Manufacturing processes and Advanced Materials



Hujun Yin – **AI and Data**

Promoting AI and Digital Revolutions in Engineering and Industries

Clean Futures – Amanda Lea-Langton



Alan Dickson and Amir Keshmiri - **Innovative Healthcare**

Innovative Healthcare: Knowledge, Process and Technology for a Healthy Future

Transport – Tony Chen

Revolutionise transport to be more integrated, smarter, cleaner and more efficient



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- Identify existing & new companies – perhaps aim to start small, e.g. MSc project & build
- Encourage others & raise awareness of any ongoing activity – expand the connections
- Invest time to expand your network, find connections and build relationships with industrial partners to connect with them as individuals and also to understand the problems they are trying to resolve so you can align project goals to meet their needs
- Engage in forthcoming workshops and activities
- Talk to Aline Miller, Theme Leads, the Business Engagement PS Team & Innovation Factory

