How Innovate UK helps UK businesses innovate today

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UK Research and Innovation: vision, mission and values

A research and innovation system that is fit for the future and able to respond to environmental, social and economic change on a global scale, tackling several challenges and opportunities:

- developing new ideas and technologies to address the complex challenges facing all societies around the world
- helping the UK to make the most of its world-class research and supporting its businesses to stay at the cutting edge
- engaging the public in discussion about research and innovation
Benefiting everyone through knowledge, talent and ideas

UK Research and Innovation brings together the 7 Research Councils, Innovate UK and Research England.

As part of UK Research and Innovation, Innovate UK drives productivity and economic growth by supporting businesses to develop and realise the potential of new ideas including those from the UK’s world-class research base.
Innovate UK drives productivity and economic growth by supporting businesses to develop new ideas.

We connect businesses to the people that can help them, and fund businesses and research collaborations in all economic sectors, value chains and UK regions to accelerate innovation.
Investment of £2.2bn since 2007

Up to £3.75bn from industry match funding taking the total value of projects above £2.2bn.

We’ve funded around 11,000 unique organisations involved.

Up to £16bn in added value to the economy for every £1 we’ve invested.

8 jobs for each organisation involved.

70,000 jobs created in total.
Global investment in R&D comparisons

Source: OECD Main Science and Technology Indicators 2015. Data for comparator countries shown. ONS data has been used for the UK for greater accuracy (2015 data). Credit: Royal Society
How we do it

Delivery of solutions that are:

• Innovation-oriented
• Adoption-friendly
• Build on UK USPs
• Attractive for clinical trials
• Supporting national strategy
• Aligned to Research Council aims
Innovate UK Networks: Find markets, solutions and funding

Knowledge Transfer Network

Enterprise Europe Network

KTN supported clean-tech company FeTu
Connecting people to accelerate innovation

Featured:

About KTN

Knowledge Transfer Network is Innovate UK’s network partner and also provides innovation networking for other funders in line with its mission to drive UK growth. To find out more, click here.
Priority areas

• Precision medicine
• Medical technology
• Digital health
• Advanced therapies - cell, gene and others
• Preclinical technologies
• Pathogens
• Biosciences
Catapults: where they are

Our network of Catapult centres is located throughout the UK in areas of strategic importance to each sector.

“To innovate, we need open centres where academia and business can get together and drive forward great ideas into manufactured products. And that’s what the Catapults are delivering for us.”

Juergen Maier, Chief Executive,
Siemens UK

Regional Centres

Digital
North East and Tees Valley
Yorkshire
Brighton
Northern Ireland

Satellite Applications
North East
Scotland
South West
East Midlands
South Coast

Transport Systems
Harwell

Cell and Gene Therapy
Stevenage
London

Future Cities
London

Compound Semiconductor Applications
South Wales

Energy Systems
Birmingham

High Value Manufacturing
AFRC - Strathclyde
NCC - Bristol
CPI - Wilton/Sedgefield/Darlington
AMRC and NAMRC - Rotherham
MTC - Ansty
WMG - Coventry

Offshore Renewable Energy
Glasgow
Blyth
Levenmouth
Advanced Therapy Treatment Centres

- clinical delivery pathway
- informatics
- track & trace solutions
- education
- end to end supply chain
- infrastructure
- economic modelling

London ATN

Midlands-Wales Advanced Therapy Treatment Centre

iMATCH
Advanced Therapy Treatment Centres

AIMS

- Increase patient access to advanced therapies
- Establish best practice for safe and effective delivery - capable of replication
- Make the UK the exemplar for adoption of these therapies

Key Criteria:

- Significant NHS involvement
- Involve both product developers and supply chain companies
- Lay the foundations for tracking and tracing systems – patient and product
Introduction to Innovate UK funding

- Sector competitions
- Industrial Strategy Challenge Fund
- Knowledge Transfer Partnerships
- Eurostars
- BioMedical Catalyst
- Open/SMART competitions
- Innovation Loans
- Materials & Manufacturing and other themed competitions
Industrial Strategy Challenge Fund

• Delivers the science that business needs to transform existing industries and create new ones

• Accelerates commercial exploitation of the most exciting technologies the UK has to offer the world

• Ensures that scientific investment truly delivers economic impact, jobs and growth right across the country

• Industry-led and powered by multi-disciplinary research and business-academic collaboration
5 foundations of The Industrial Strategy

**Ideas**
The world’s most innovative economy

**People**
Good jobs and greater earning power for all

**Infrastructure**
A major upgrade to UK’s infrastructure

**Business Environment**
The best place to start and grow a business

**Places**
Prosperous communities across the UK
Industrial Strategy Challenge Fund

Ageing Society
- Leading-edge healthcare (inc. medicines manufacturing)
- Data to early diagnosis and precision medicine
- Healthy ageing
- Accelerating detection of disease

AI and Data Economy
- National Satellite Test Facility
- Audience of the future
- Quantum technologies
- Next generation services
- Made smarter

Future of mobility
- Self-driving vehicles
- Manufacturing and materials of the future
- Faraday battery challenge
- Robots for a safer world
- Driving the electric revolution
- Future flight

Clean growth
- Energy revolution
- Transforming construction
- Transforming food production
- Industrial decarbonisation
- Smart sustainable plastic packaging
- Transforming Foundation Industries

UK Research and Innovation
Wave 2 Challenges (up to £729.5m)

- Audience of the future (up to £33m)
- Early diagnosis & precision med (up to £196m)
- Energy revolution (up to £102.5m)
- Healthy ageing (up to £98m)

- Next generation services (up to £20m)
- Quantum technology (up to £20m)
- Transforming construction (up to £170m)
- Transforming food production (up to £90m)
ICSF Medicines Manufacturing Challenge

£191m in Wave 1 to develop first-of-a-kind technologies for the manufacture of medicines to accelerate patient access to new drugs and treatments

Vaccines Development & Manufacturing Centre
£66m

Medicines Manufacturing Innovation Centre
£13m

Cell & Gene Therapy Manufacturing Centre
£12m

Advanced Therapies Treatment Centres
£30m

Medicines Manufacturing Collaborative R&D
£25m

Digital Health Technology Catalyst
£35m

Viral vector production for cell and gene therapies
£5.6m

Digitalisation of medicines manufacturing
£4.3m
Knowledge Transfer Partnerships (KTP)

- KTPs help UK businesses innovate and grow by linking them with an academic or research organisation and a graduate
- A KTP enables a business to bring in new skills and academic thinking
- The academic or research organisation partner will help to recruit a suitable graduate
- Schemes last between 12 and 36 months
The Industrial Strategy identified our investment accelerator model as a new approach to financing innovation, highlighting its potential to scale up businesses.
Eureka Eurostars 2: round 12

• Aimed at small companies.
• Funded via H2020.
• Current round 25th July to 12th September 2019.
• Turn an idea into a product and commercialize it.
• Combine and share expertise and benefit from working beyond national borders.
• Grow faster.
• Project leader must be an R&D-performing SME from a Eurostars country.
• Open to all projects in all technology areas and market fields, but projects must have a civilian purpose.
• The consortium must include at least two partners independent from each other and established in at least two different Eurostars countries.
• Organisations from any other country may participate (as a third country), but only if two Eurostars countries are already in the project.
• Subcontractors are not considered as project partners.
• The project must be completed in 36 months or less.
• Eurostars project market introduction of the project results should be within 24 months of the completion of the project.
Innovate UK Smart Grants

Projects that support ambitious or disruptive R&D innovations with significant potential for impact on the UK economy

£25m available, Current round opened 25th July and closes noon 16th October 2019

6 and 18 months
• total project costs between £25k and £500k
• single company or collaboration

19 and 36 months
• total project costs between £25k and £2m
• collaboration only
Enabling integrated diagnostics for early detection

• This competition aims to accelerate development of innovative diagnostic tools and technologies by multi-disciplinary and cross-sector consortia.

• The maximum grant your consortium can apply for is £3.5 million. The total eligible project costs for each consortium, including industry contributions and any other co-funding, must not exceed £10 million.

• **Opened 23rd July and closes noon 25th September 2019**

• Projects must start by 1 January 2020 and can last for up to 36 months.
Mechanising and improving advanced therapy manufacture

• The aim of this competition is to encourage inventors of advanced therapies to introduce affordable technology during early innovation stages. This technology will enable them to reproduce the manufacture of their product at a commercial scale.

• UK businesses can apply for a share of up to £3.7 million for research and development projects to improve manufacturing of advanced therapies. This funding is from the Industrial Strategy Challenge Fund.

• **Competition opened 27th August and closes 25th September 2019 12:00pm**

• Your application must be collaborative. Your project’s total eligible costs must be between £1 million and £2 million.
Innovation loans

A pilot programme of competitions to the end of 2019 aiming to ensure that businesses can access funding at all stages of innovation.

- Up to **£10 million** available
- Competitions for UK SMEs wanting to scale up
- Can be used for late-stage R&D projects
- Delivered by Innovate UK Loans Ltd.
A pre-competitive consortium to accelerate innovative drug discovery in psychiatry disease

**Challenge**
Lack of novel, validated drug targets

**Opportunity**
 Increased understanding of biology combined with emerging genetic data

**Aim**
Identify & validate novel therapeutic targets for psychiatry disease

**Scope**
- £3m funding over 3 years
- Broad disease scope (e.g. psychotic disorders, depression, anxiety, etc.)
- Early drug discovery with a focus of new biological targets & disease biomarkers
- Up to 10 projects funded in 3 years

**Eligibility**
- Academic institutions worldwide
- Preclinical projects focused on the validation of novel targets & their relevance to disease

Information: mdc.link/psycon

CATAPULT Psychiatry Consortium

Supported by Wellcome
Women in Innovation: Building Success in the North West event on the 24th of September 2019, Manchester

Thank you