

Priorities: Science and Innovation Tackling Global Challenges



Urbanisation



Population



Climate Change



Food security



Energy



Biodiversity



Water



Alleviating poverty



Ageing population



Human disease



Anti-microbial resistance



Animal disease



Non-infectious diseases

Priorities: Science and Innovation driving UK growth



Industrial Strategy: government and industry in partnership

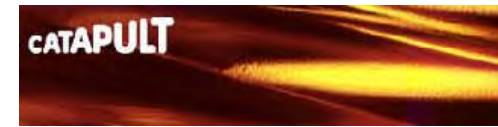


gov.uk/industrial-strategy

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"Investment in science is an investment in our future"

George Osborne, 2013



Seven Catapult Centres
world-leading centres to transform the UK's capability for innovation



Eight Great Technologies



HM Government

Industrial Strategy

Eight Great Technologies

Technologies in which the UK is set to be a global leader

Big Data

Satellites

Robotics and autonomous systems

Synthetic biology

Regenerative Medicine

Agri-Science

Advanced materials

Energy Storage





Nurturing new scientific talent

Ensuring that the world of science and innovation continues to attract and develop the brightest minds

- Postgraduate loans - Government will introduce Income Contingent Loans of up to £10,000 for students undertaking taught Masters courses beginning in 2016/17. Up to 40,000 students are expected to benefit from these new loans.



Investing in scientific infrastructure

Investing in our scientific infrastructure, landscape and equipment so that it equals the best in the world

- £1.1 billion (198 Bn JPY) a year investment in research capital from 2015-16 to 2020-21, growing in line with inflation. Investment will total £5.9 billion (1.1 Tn JPY).
 - £3 billion to support our world class labs in universities and our research institutes.
 - £2.9 billion of capital to support specific projects [c£800 million] and create a significant ‘capital agility fund’ to meet the greatest challenges of our time as they emerge



Supporting research

Supporting research excellence whilst keeping pace with a changing environment

- Funding protected at £4.6 billion per annum to 2016
- Aim for open access to publicly funded research
- Research Excellence Framework (REF- largest ever quality and impact evaluation of the UK's investment in science (55,000 researchers, 191,000 research outputs and 7,000 case studies)
- UK Charter for Science and Society, setting out principles for public engagement.
- Push for further efficiencies and review of Research Council system

Catalysing Innovation

Innovate UK

Technology Strategy Board

- Enables people and companies to work together, share ideas and make innovation happen through connections and networks
- Offers funding to de-risk development of innovative products and services;
- Helps business to understand future markets and the opportunities created by the challenges of today
- Runs competitions for R&D funding;
- Helps join up the innovation landscape so that companies can get the right help at the right time.

