BBSRC funding support for collaborative research

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What is UK Research and Innovation (UKRI)

- Launched April 2018
- Brings together the seven UK research councils, Innovate UK, and Research England
- Work closely with partner organisations in devolved administrations and interface wider community
UK research funding

HM Treasury

Department for Business, Energy and Industrial Strategy (BEIS)

Comprehensive Spending Review

~£6.5 billion budget

UK Research and Innovation (UKRI)

AHRC  BBSRC  ESRC  EPSRC  MRC  NERC  STFC

Research England  Innovate UK

~4000 research & business grants

Universities  Institutes  Campuses  Businesses  Laboratories  Innovation Catapults
BBSRC – what we do

Vision: To lead world-class 21st century bioscience, promoting innovation in the bioeconomy and realising benefits for society within and beyond the UK

• Invest in world-class bioscience research in UK Universities and Institutes (£498m in 2017/2018)
  > Agriculture and Food Security
  > Industrial Biotechnology & Bioenergy
  > Bioscience for Health

• Invest in bioscience training and skills for the next generation of bioscientists

• Drive the widest possible social and economic impact from our bioscience in industry, policy and public goods
Collaboration & Partnerships: BBSRC working with business

- Enabling the bioscience research base to respond to industry challenges
- Strengthening and developing BBSRC’s links with bioscience research users
- Creating opportunities for engagement
BBSRC investment in doctoral training

- £39M invested in new doctoral studentships in 2017 (~500)

Size classification of CASE project partners 2011-2017
- 73% large
- 12% medium
- 7% small
- 8% micro
UKRI Future Leaders Fellowships

Aim: To develop, retain, attract and sustain research and innovation talent in the UK

- Open to individuals based in business or universities
- £900 million fund to support the leaders of the future
- 600 fellowships awarded over 3 years
- 7 years of funding (4+3)
- No barrier to interdisciplinarity
BBSRC collaborative schemes: IPA and LINK

• Both IPA and LINK schemes enable industry partners to leverage investment in a research project conducted at a UK Research Organisation (RO).

• IPA grants:
  – require a **10% cash investment** from the industry partner.
  – more **fundamental** academic-led research.
  – E.g. The University of Manchester and GlaxoSmithKline discovered the mechanism by which the body's internal clock controls inflammation in the lungs.

• LINK grants:
  – Require a **50% cash and/or in-kind contribution** from the industry partner
  – more **applied research** with significant industry involvement.
  – E.g. The Pirbright Institute and Fort Dodge Animal Health developed a rapid test for Marek’s disease in chickens.
Sector-specific initiatives

Research clubs

- **DRINC** • Diet and Health Research Industry Club
- **PFP** • Priming Food Partnerships
- **UK Aquaculture Initiative**
- **HAPI** • Horticulture and Potato Initiative
- **ARC** • Animal Health Research Club
- **SARIC** • Sustainable Agriculture Research & Innovation Club

Academic-Industry Networks

- **BBSRC NIBBs**
- **BioProNET**
- **IB Carb Network**
- **Food Innovation Network**
- **Innovate UK partnerships**
- **National Biofilms Innovation Centre**
- **SynbiCITE**
- **Agri-Tech catalyst**
- **Industrial biotechnology catalyst**

**UK Research and Innovation**
Knowledge Transfer Partnerships (Innovate UK)

- Each KTP is a 3-way partnership between:
  1. A UK-based business of any size or a not-for-profit organisation
  2. An academic or research organisation. This could be a university, college or research and technology organisation in the UK
  3. A suitably-qualified graduate, with the capability to lead a strategic business project

- Helps businesses in the UK to innovate and grow by linking them with an academic or research organisation and a graduate.

- Scheme can last between 12 and 36 months
Industrial Strategy Challenge Fund

• ~£2Bn fund, delivered by **UK Research and Innovation**

• Supports the Government’s Industrial Strategy

• Will build on the UK’s world-class research base and deliver 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 to ensure that scientific investment truly **delivers economic impact, jobs and growth right across the country**

• Programmes delivered by the fund will be **industry-led** and powered by **multi-disciplinary research and business-academic collaboration**
ISCF Wave 1 Challenges (c. £1b)

- **Leading-Edge Healthcare Challenge** (including Medicines Mfg) up to £188m
- **Faraday Battery Challenge** up to £246m
- **Robotics and AI in extreme environments Challenge** up to £93m
- **Next Gen. Affordable Lightweight Materials Mfg (ATI projects)** up to £26m
- **Autonomous Vehicles (CCAV projects)** up to £38m
- **National Satellite Test Facility** up to £99m

Underpinning UKRI investments (Wave 1a) up to £283m
ISCF Wave 2 Challenges (£729.5m)

- Audience of the future (up to £33m)
- Data to early diagnosis and precision medicine (up to £196m)
- Prospering from the energy revolution (up to £103m)
- 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)
Any questions?

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