

Funding Landscape

Katharine Hollinshead

21st Century Challenges Programme manager

katharine.hollinshead@stfc.ac.uk

STFC GCRF funds: £3.5m per year from 2017/18 to 2020/21)

- 1. START – Synchrotron Techniques for African Research and Technology.** (£3.5m 2017/18 to 2020/21). Diamond Light Source-led project to create a UK-Africa programme of world class research in two areas: developing and characterising novel energy materials (catalysts and photovoltaics); and protein structure determination. Working with South Africa, Lesotho, Ethiopia and Egypt
- 2. China-UK SKA Programme.** Joint training programme with China Scholarship Council to support Programmes for PhDs and postdocs. Cambridge, Oxford and Manchester so far, another call likely in 2018
- 3. STFC Foundation GCRF 2017 call** run in 2017, 35 applications received, 22 projects awarded. Intend to run a second call in 2018
- 4. CERN Summer Studentships .** Sponsoring 20 graduate level summer studentships from sub-saharan Africa, Asia and Latin America to experience CERN life, working on ATLAS and CMS. Would like to continue in 2018
- 5. CERN workshop – Innovative, robust and affordable medical linacs for challenging environments (October 2017).** bring together experts from accelerator and medical fields together with health staff from ODA countries to help define technology needs for developing country applications



Industrial Strategy: Grand Challenges



AI & Data Economy

We will put the UK at the forefront of the artificial intelligence and data revolution



Future of Mobility

We will become a world leader in the way people, goods and services move



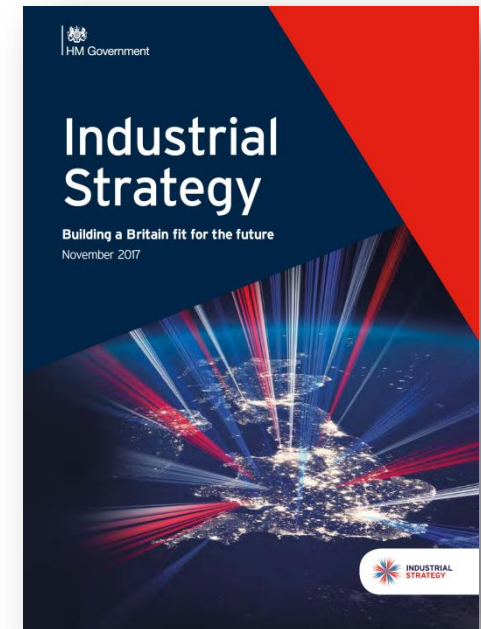
Clean Growth

We will maximise the advantages for UK industry from the global shift to clean growth



Ageing Society

We will harness the power of innovation to help meet the needs of an ageing society



Industrial Strategy Challenge Fund

ISCF aims to bring together the UK's world-leading research base with business to meet the major industrial and societal challenges of our time. Focusing on challenges where:

- the UK has a world-leading research base and businesses ready to innovate
- there is a large or fast-growing and sustainable global market

Approximately **£1bn up until 2020/21** was announced for **6 challenges** in April 2017:

- Healthcare and medicines
- Robotics and artificial intelligence
- Clean and flexible energy
- Driverless vehicles
- Manufacturing and materials of the future
- Satellites and space technology

Wave 3: UKRI launching an expression of interest for potential challenges in early 2018

Industrial Strategy White Paper announced **£725m** for a **second wave of challenges**:

- Prospering from the energy revolution
- Transforming construction
- Transforming food production
- Data and early diagnosis in precision medicine
- Healthy ageing
- Audience of the future

And two Pioneer Challenges to build industry engagement:

- Next generation services
- Quantum technologies

ISCF and STFC

- Innovation Fellowships x 10
- Data Intensive CDTs: 8 centres funding 98 students involving 19 research organisations
- Bridging for Innovators (B4I)
 - to help companies overcome difficult product, manufacturing or process performance issues
 - provides access to advanced analytical technologies, supporting expertise and capabilities to companies through STFC's large scale science facilities
- National Space Test Facility
 - co-located facilities for the assembly, integration and testing of space payloads and satellites

Innovation Partnership Scheme

- to transfer technology and expertise developed through STFC funding to the marketplace in partnership with industry and other academic disciplines
- maximum project value of £150k per annum, over a period not exceeding three years

<http://www.stfc.ac.uk/funding/working-with-industry/innovations-partnership-scheme/>

Follow on funding

- very early or pre-seed stage of turning research outputs into a commercial proposition
- industry partners are not allowed
- maximum project value of £110k per annum, over a period not exceeding 12 months

<http://www.stfc.ac.uk/funding/working-with-industry/commercialisation/follow-on-funding/>

IPS Fellowships

- Support for a knowledge exchange and commercialisation professional at a UK university in developing innovation and impact from its STFC-funded research output
- STFC will fund up to 50% at 80% FEC

<https://www.stfc.ac.uk/funding/fellowships/innovations-partnership-scheme-fellowships/>

Challenge Led Applied Systems Programme

- Application and commercialisation of STFC research in the key global research challenge areas of energy, environment, healthcare and security
- Individual annual calls are aligned to specific challenge areas
- 2017 call on healthcare, 2016 energy and environment
- Total 2017 budget = £2m

<http://www.stfc.ac.uk/funding/working-with-industry/challenge-led-applied-systems-programme/>

Closing dates

IPS, Follow on Fund, IPS Fellow

- 15 May
- 4 September

Calls to be announced

- 21st Century Challenges Networks
- STFC GCRF
- CLASP
- BBSRC/STFC/DBT Newton Agricultural Data Enhancement India
- Newton Agritech China

Sources of information about funding opportunities

- <http://www.stfc.ac.uk/funding/research-grants/funding-opportunities/funding-calls/>
- <http://www.rcuk.ac.uk/funding/gcrf/>
- <http://www.newtonfund.ac.uk/funding/funding-opportunities/>
- <https://apply-for-innovation-funding.service.gov.uk/competition/search>
- <http://www.stfc.ac.uk/funding/research-grants/funding-opportunities/global-challenge-networks/>
- <http://www.stfc.ac.uk/news-events-and-publications/publications/innovations-club-newsletters/>