Nuclear Physics Technology Showcase Event
26 September 2013, IoP London

STFC External Innovations Programme Funding Schemes

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Funding Mechanism

HM Government (and HM Treasury)

Department for Business Innovation & Skills

RCUK Executive Group

Logos of various research councils and councils.
Science and Technology Facilities Council

STFC funds world class and world-leading research in nuclear physics, astronomy, particle physics and space science

- This research takes place in university groups
- STFC sites/laboratories
- International organisations

- Providing access to world class UK facilities and overseas facilities

- Funding university researchers
  1,700 academic staff in UK universities
STFC Facilities – driving scientific research

Neutron Sources
Providing powerful insights into key areas of energy, biomedical research, climate, environment and security

High Power Lasers
Providing applications on bioscience and nanotechnology and demonstrating laser driven fusion as a future source of sustainable, clean energy

Light Sources
Providing new breakthroughs in medicine, environmental and materials science, engineering, electronics and cultural heritage
International Partnerships

- CERN
- European Southern Observatory (ESO)
- European Space Agency (ESA)
- European Synchrotron Radiation Facility (ESRF)
- Institute Laue-Langevin (ILL)
Technology to underpin science

Developing and delivering innovative technologies in STFC laboratories and in collaboration with University groups

Key Technologies

- Accelerator technologies
- Instrumentation
- Detectors and Sensors
- Data Acquisition and Processing Systems
- Microelectronics design
- High power lasers
- High Performance Computing

- Significant industrial applications
- Collaborative efforts
STFC External Innovations Objectives

- To transfer knowledge to diverse technological sectors
- Promote interdisciplinary collaborative research with industry leading to commercialisation

Eligibility for STFC External Innovations Funding

- Eligibility arises from STFC funded research as the source of knowledge (academic lead)
- Funding schemes open to STFC Labs, HEIs and international subscriptions (CERN, ESO)
- Other Universities or industry can participate provided that they collaborate with STFC funded partner
External Innovations Funding Programme

- **Generate impact** by providing funding support to help bridge the ‘commercialisation gap’

- **Key aims**
  - Transfer
  - Exploitation
  - Partnership & Collaboration
  - Economic Impact

**Impact through innovation**
External Innovations Funding Schemes

- **IPS** - Innovations Partnerships Schemes – next deadline January 2014
  - Follow on Funding
  - IPS and Mini-IPS
  - IPS Fellowships - dedicated technology transfer staff

- **CLASP** – Challenge Led Applied Systems Programme
  - Aligned to STFC Futures Programme
    - Energy, Environment, Healthcare, Security
  - Energy call

- Knowledge Transfer Partnerships

- RSE Enterprise Fellowships
Follow on Funding

Aim - To establish commercial feasibility on scientific and technical merit

• Proof of concept funding
• Undertaking further scientific and technical development of an idea
• Improving an intellectual property (IP) position
• Gaining further information about the market for the new products or process
• Identifying potential licensees or opportunities for joint ventures

Not in partnership with industry
IPS / Mini - IPS

Collaboration
• With industry
• With another academic discipline

Range of activity
• Feasibility studies to prototyping
• Route to market must be considered

IPS is a State Aid Notified Scheme
• Funding can be given to industry partners in line with State Aid rules
IPS Fellowships

- This is a dedicated technology transfer role - not a research fellowship
- Duration – up to 48 months
- Host institution must be in receipt of substantial STFC funding
- Promoting commercial exploitation
- Transferring the technologies developed through STFC funding
## Scheme features – 3 calls/year

<table>
<thead>
<tr>
<th></th>
<th>IPS ACADEMIC / INDUSTRY</th>
<th>IPS ACADEMIC / ACADEMIC</th>
<th>MINI-IPS</th>
<th>FOLLOW ON FUNDING</th>
<th>IPS FELLOWSHIPS</th>
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</thead>
<tbody>
<tr>
<td><strong>Eligibility of non STFC organisations</strong></td>
<td>Industry as supporter or co-recipient</td>
<td>Academic groups not funded by the STFC as supporter or co-recipient</td>
<td>Industry and/or academic groups not funded by the STFC as supporter or co-recipient</td>
<td>None</td>
<td>None</td>
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<tr>
<td><strong>Maximum duration</strong></td>
<td>36 months</td>
<td>36 months</td>
<td>12 months</td>
<td>12 months</td>
<td>48 months</td>
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<tr>
<td><strong>Maximum project values</strong></td>
<td>£450K</td>
<td>£450K</td>
<td>£150K</td>
<td>£110K</td>
<td>No maximum</td>
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<tr>
<td><strong>Maximum %</strong></td>
<td>80% Full economic cost STFC or academic partner</td>
<td>80% Full economic cost</td>
<td>80% Full economic cost</td>
<td>80% (fEC limit) of 50% of costs</td>
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<td><strong>Maximum STFC contribution</strong></td>
<td>£360K</td>
<td>£360K</td>
<td>£120K</td>
<td>£88K</td>
<td>No maximum</td>
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CLASP

Annual calls in one of the STFC Futures Programme areas: Energy, Environment, Healthcare and Security

- Two stage application process
  - two page technical outline should include impact, timescales, markets and work plan

- Shortlisted applicants
  - will be invited to develop full proposals with assistance and advice from STFC Innovations staff and panel members.
  - will be required to present their final proposals to the Evaluation Panel

- Typically £1.5M STFC funding available per call
  - any size of project

- Industry can be included in a project offering in-kind support or as a subcontractor for key tasks
CLASP Energy – Challenge Areas

- Energy Storage
- Nuclear Energy
- Future Energy Grids
- Energy Materials
- Sensing and Monitoring

www.stfc.ac.uk/clasp
Knowledge Transfer Partnership (KTP)

- Collaborative project between business and knowledge base (KB)
  - developing new products or processes
  - improving existing products or processes

- KTP Associate employed by the KB to enable
  - business to increases profitability and embed knowledge
  - knowledge base to transfer research to users
  - opportunity for post-graduates to bridge the gap to industry

- Projects last 1 – 3 years
- Programme run by TSB, sponsored by STFC + others
  - support available from TSB during application

www.ktponline.org.uk - to find local KTP adviser
RSE Enterprise Fellowships
The Royal Society of Edinburgh

- Support to commercialise any STFC funded research
- A year’s salary to develop your commercial proposition
- Business training to help you to prepare a viable business plan
- Access to networks of mentors, business experts and professional advisors
STFC Innovations Club

- Set up to promote the opportunities for Knowledge Exchange
- Membership is free, provides organisations with information about the calls and the opportunity to search for potential collaborative partners
- Runs an active programme of workshops and events and monthly Newsletter for the benefit of academics, industrialists and other interested research and technology organisations.
- Our events are free to attend and are primarily for companies and academics to learn about recent developments and encourage collaboration while promoting funding opportunities
- Established business network includes many sectors including defence, medical, security, aerospace, space sector…
- [www.stfc.ac.uk/innovationsclub](http://www.stfc.ac.uk/innovationsclub)
Thank you