

Innovate UK funding opportunities

C4IR 8th Smart Grids Cleanpower 2017 Conference

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www.cir-strategy.com/events

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Innovate UK

...join the follow up 9th SGCP18 26-27 June Cambridge, UK

Outline

- Introducing Innovate UK
- Current Innovate UK Funding Competitions
- BEIS Energy Innovation Funding

Innovate UK competitions

Title	Budget	Deadline
Infrastructure Systems R3	£15m	13/9/17
Open Competition R3	£15m	9/8/17
Energy Catalyst R5	£13m	28/6/17
Investment Accelerator Pilot	£8.5m	5/7/17
Jiangsu-UK industrial challenge	£5m	21/6/17
Materials and manufacturing round 3	£15m	12/7/17
Research and development competition for RAI in extreme and challenging environments	£10m	2/8/17
Demonstrator for RAI in extreme and challenging environments – phase 1	£6m	19/7/17
Connected and autonomous vehicles test bed	£55m	19/7/17

Infrastructure Systems Round 3

- Innovate UK is to invest up to £15 million in projects to stimulate innovation that creates UK business growth in infrastructure systems.
- We want businesses to collaborate to develop new integrated solutions and business models.
- Projects must show significant innovation in:
 - smart infrastructure
 - Smart infrastructure solutions that bring the digital and physical worlds together. Solutions must add intelligence to physical infrastructure, or the design process, to improve whole-life cost and/or performance, resilience, security and/or sustainability
 - energy systems
 - We are looking for innovations with the ability to flexibly match changing energy supply and demand profiles of the future. These must create or demonstrate smart system solutions that integrate energy generation and demand at local, regional or national scale. They might include methods to shift peak energy use. This can include storage or advanced management and optimisation of multiple energy supply and/or demand sources to encourage flexible energy use and efficiency. Solutions that optimise across energy vectors (such as electricity and heat) are encouraged. The outcome must be significant improvements in value proposition, energy, affordability, security, reduced emissions
 - offshore wind
 - nuclear
 - connected transport
 - urban living

Key dates for Infrastructure Systems Round 3

4 July 2017

[Briefing event in Glasgow](#)

6 July 2017

[Briefing event in Portstewart](#)

10 July 2017

Competition opens

11 July 2017

[Briefing event in London](#)

11 July 2017

[Briefing event \(by webcast\)](#)

13 July 2017

[Briefing event in Leeds](#)

18 July 2017

[Briefing event in Cardiff](#)

20 July 2017

[Briefing event in Exeter](#)

13 September 2017 12:00pm

Competition closes

12 January 2018

Applicants notified

- Proposals must improve business growth, productivity and/or create export opportunities for at least one UK small and medium-sized enterprise (SME) involved in the project.
- Projects will range in size from total project costs of £25,000 to £5 million and must last between 3 months and 3 years.
- We are also accepting applications for Knowledge Transfer Partnerships in infrastructure systems at this time.

Open Competition (Round 3)

- UK businesses can apply for a share of up to £15 million. This is to deliver game-changing, cutting-edge innovations with significant potential for impact on the UK economy.

You must:

- be a UK based business
- carry out your project in the UK
- work alone or in collaboration with others (businesses / research base / third sector)
- Closes: 9 August 2017

Energy Catalyst Round 5

- **Registration closes:** Wednesday 21 June 2017 12:00pm
- The [Department for International Development](#) (DFID), the [Department for Business, Energy & Industrial Strategy](#) (BEIS) and the [Engineering and Physical Sciences Research Council](#) (EPSRC) are to invest up to £13 million in innovation projects to address the global need for clean, affordable and secure energy.
- The aim of the Energy Catalyst competition is to support highly innovative, market-focused energy solutions in any technology or sector or international market. Proposals must address all 3 elements of the energy trilemma: cost, emissions, security of supply
- The competition is open to any UK organisation and may also include international partners. You should apply into the stream most closely aligned with your project. Universities and small and medium-sized enterprises (SMEs) are encouraged to apply. Research organisations may lead early-stage feasibility projects.
- There are 3 options to apply into this competition.
- **Early-stage competition** Projects can last up to 1 year, with total costs ranging from £50,000 to £300,000.
- **Mid-stage competition stream** Projects can last up to 3 years, with total costs ranging from £50,000 to £1.5 million. Must be collaborative.
- **Late-stage competition stream** Projects can last up to 3 years, with total costs ranging from £50,000 to £10 million. Must be collaborative.

Jiangsu-UK industrial challenge programme

- UK businesses can apply for a share of £5 million to carry out projects with partners from Jiangsu province, People's Republic of China.
- **Registration closes:** Wednesday 21 June 2017 12:00pm
- **Infrastructure systems priorities** Solutions for smarter, integrated and intelligent infrastructure incorporating digital technologies. This includes adding a layer of intelligence to and improving links between: energy systems: matching energy supply and demand, improving affordability, security and value proposition

Investment accelerator pilot

- UK businesses can apply for a share of £8.5 million to fund feasibility studies in infrastructure systems or health and life sciences.
- Eligibility: The competition is open to single small and medium-sized enterprises (SMEs) who are looking for early stage grant funding and who wish to establish an equity relationship with a UK venture capital firm.
- Closes: 5 July 2017
- This is a pilot programme for Innovate UK. It provides simultaneous grant funding and venture capital investment for early stage projects led by UK companies.
- We expect projects to have total costs of up to £150,000. The programme will provide 100% of project costs. Projects should last between 3 and 12 months.

Investment accelerator pilot (Scope)

- **Energy supply and systems**
- Innovations that improve value proposition, energy affordability and security, and reduce carbon emissions. These could include:
 - solutions that flexibly match energy supply and demand, such as storage, grid balancing and integration of micro-energy generation
 - solutions that optimise performance across different energy vectors (the competition is not limited to electricity)
 - energy supply solutions, such as carbon abatement, renewable energy technologies, nuclear power and hydrogen and fuel cells
- Other areas in scope are health and life sciences, connected transport, smart infrastructure, and urban living.

Materials and manufacturing round 3

- UK businesses can apply for a share of up to £15 million to work on innovation projects in manufacturing and/or materials
- **Competition closes:** Wednesday 12 July 2017 12:00pm
- A project must cover at least one, from either of the following areas:
- innovation in a manufacturing system, technology, process or business model. For example, in process engineering, additive manufacturing, industrial biotechnology, mechanical conversion processes, coatings, surface engineering, textiles, supply chain management, new product introduction processes or re-manufacture, or application of digital technology to manufacturing approach
- innovation in materials development, properties, integration or reuse. For example, materials for light-weighting, energy generation and storage (heat and electricity), electronics/sensors, bonding and joining technologies, or operation in demanding environments. Also, the use of digital technologies to reduce time for material development, evaluation and assurance

Connected and autonomous vehicles test bed

- Businesses and research organisations can apply for a share of up to £55 million to create the world's most effective CAV testing ecosystem.
- **Registration closes:** Wednesday 12 July 2017 12:00pm
- The Centre for Connected and Autonomous Vehicles (CCAV) has a £100 million fund to invest in [CAV test bed infrastructure](#). This competition is for up to £55 million in projects to develop connected and autonomous vehicle (CAV) testing infrastructure.
- The aim is to create the world's most effective CAV testing ecosystem. Proposals should integrate existing proving grounds and public road test sites across the UK's existing automotive and technology heartlands. They should improve current capabilities and create new ones.
- CCAV is expecting to invest up to £7 million to £18 million per project, depending on the competition stream. It expects to support up to 4 projects. Preference will be given to projects that can deliver operational facilities and be open for business within 12 to 18 months.

BEIS Energy Innovation Funding

Smart Energy

<https://www.gov.uk/guidance/funding-for-innovative-smart-energy-systems>

Offshore Wind

<https://www.gov.uk/guidance/funding-for-innovation-in-renewable-energy>

Nuclear

<https://www.gov.uk/guidance/funding-for-nuclear-innovation>

Low carbon industry

<https://www.gov.uk/guidance/funding-for-low-carbon-industry>

Innovative Built Environment

<https://www.gov.uk/government/publications/funding-for-innovative-approaches-to-using-hydrogen-gas-for-heating>

Cross-cutting

<https://www.gov.uk/government/collections/energy-entrepreneurs-fund>

Thank You

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