**Edition: October 2016**

Innovate UK focuses on thematic areas that are most likely to generate UK economic growth and which address global challenges and opportunities – and on competencies and technologies which enable innovation in these areas.

In making investments they apply four key criteria:

* Is there a large (global) market opportunity?
* Does the UK have the capability to develop and exploit the technology?
* Is the idea ‘ready' – is the timing right?
* Can Innovate UK make a difference?

Most of these calls are costed on a total project basis, with the funder then meeting a percentage of that cost. The percentage will depend on a number of factors including the length of the project, the total project cost and the size of the company.

Calls are announced on a regular basis and this document is updated monthly. If you have an idea or a challenge that meets the criteria for funding and where you think the University can help, come and talk to us. You can contact the Business Team at: [businessteam@contacts.bham.ac.uk](mailto:businessteam@contacts.bham.ac.uk)

Further detail for all of the following calls can be found at <https://interact.innovateuk.org/>

**NB:** Innovate UK has recently published its delivery plan for 2016 to 2017. The plan highlights 5 programmes that it will support over the coming year, which a number of calls released under each programme. Estimates for when these calls will open are provided below, and information will continue to be updated throughout the year.

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|  | | **Emerging and Enabling Technologies**  *Emerging Technologies finds and proves early stage technologies, often from the research base; Enabling Technologies supports underpinning technologies that have the potential to disrupt a broad swathe of products and services across many sectors* |
| [Commercialisation of quantum technologies](https://www.gov.uk/government/publications/funding-competition-commercialisation-of-quantum-technologies)  £19.5m available | **Scope**   * Funding for collaborative R&D and feasibility studies that will:   + Develop prototype devices and demonstrators of quantum technologies or their component technologies   + Improve the understanding of the technical, business or market challenges of taking a new device or service to market * Projects must be collaborative, with a business leading the project   **Funding and deadlines**   * Total project costs expected between £500k and £2m (collaborative R&D) or between £50k and £400k (feasibility studies) * A webinar and briefing event in Birmingham will be held on 6th September; see website for details * Registration deadline: 28th September 2016 * Competition deadline: 5th October 2016 | |
| [Robotics and autonomous systems applications](https://www.gov.uk/government/publications/funding-competition-robotics-and-autonomous-systems-applications/competition-brief-robotics-and-autonomous-systems-applications)  £5m available | **Scope**   * Aim is to develop successful RAS products, services or processes * Systems may be physical or digital, combining many complementary disciplines * Projects must be led by a UK-based business of any size, working alone or in collaboration with business, research bases or the third sector   **Funding and deadlines**   * Total project costs between £50k and £500k * Projects should last between 6 and 15 months * All projects must have concluded by March 2018 * Registration deadline is 19th October 2016 * Competition deadline is 26th October 2016 | |
| [Compound semiconductor applications](https://www.gov.uk/government/publications/funding-competition-compound-semiconductor-applications)  £4m available | **Scope**   * Innovation sought for projects that will speed up the use of compound semiconductors. Areas covered include power electronics, RF/microwave, photonics and sensors * Projects should have large and scalable commercial potential * Projects may lead to future collaborations with the new Compound Semiconductor Applications Catapult * Projects must be led by a UK-based business of any size   **Funding and deadlines**   * Total project costs expected between £50k and £500k * Projects should last between 6 and 15 months * Projects must have concluded by March 2018 * Registration deadline is 19th October 2016 * Competition deadline is 26th October 2016 | |
| Emerging and Enabling Technologies competition 1  Award up to £15m | Expected October 2016 | |
| Space Entrepreneurs Mission  Award TBC | Expected October 2016 | |
| Emerging and Enabling Technologies competition 2  Award up to £15m | Expected March 2017 | |

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|  | **Health and Life Sciences**  *Innovate UK’s Health and Life Sciences sector group has a focus on agriculture and food and healthcare, underpinned by technologies developed in bioscience and medical research and enabled by expertise in engineering and physical sciences* |
| [Agri-food innovation in Turkey](https://www.gov.uk/government/publications/funding-competition-agri-food-innovation-in-turkey)  Award up to £1.5m (UK activities) | **Scope**   * Funding for collaborative solutions that address one or more of the following challenges:   + Using waste by-products and residues from the Turkish agri-food industry to reduce their negative environmental impact and add value   + Improving agricultural productivity of small and medium sized farmers through upgrading agricultural technology   + Improving animal and plant breeding within Turkey   **Funding and deadlines**   * Innovate UK expects to fund 5-7 projects, with a total pot for UK activities of £1.5m * Registration deadline: 14th September 2016 * Competition deadline: 22nd September 2016 |
| [Agri-Tech Catalyst](https://www.gov.uk/government/publications/agri-tech-catalyst-innovation-funding-in-developing-countries)  £4m available | **Scope**   * Funding to increase the pace and scale of uptake of agricultural innovation by farmers in developing countries * Priority areas have been identified as:   + Integrating smallholders into supply change   + Meeting quality standards and improving productivity   + Creating new supply chains   + Increasing the value of production to smallholders   + Improving access to appropriate innovation in developing countries   + Innovation that increases rural income through improved processing / storage   + Control of crop pests, weeds and diseases * Projects funded at early stage, industrial research or late-stage experimental development * Projects must be led by a UK-based business. Universities can work as partners on projects   **Funding and deadlines**   * Between 25% and 70% of total costs will be funded depending on size of lead company, with projects lasting between 18 months and 3 years * Total project costs of up to £1.5m will be considered (with differing limits depending on stream applied for) * Competition deadlines are:   + 2nd November 2016 – EoI stage for Industrial research only   + 1st February 2017 – Full stage for all award categories |
| Health and Life Sciences competition 1  Award up to £15m | * Opens 12th September 2016 * A briefing event will be held on 19th September 2016; register at <http://ktnuk.co.uk/2VFU-ASEW-1J4IA7-4MLR7-1/c.aspx> * The application deadline will be 16th November 2016 |
| Aligned competitions with Cell Therapy Manufacturing  Award up to £15m | Expected September 2016 |
| Health and Life Sciences competition 2  Award up to £15m | Expected February 2017 |

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|  | **Infrastructure Systems**  *The Infrastructure Systems sector group covers the major global market opportunities in optimising transport and energy systems and integrating these with other systems such as health and digital in an urban context* |
| [Innovation in infrastructure systems](https://www.gov.uk/government/publications/funding-competition-innovation-in-infrastructure-systems)  £15m available | **Scope**   * Projects will be supported for business-led solutions to the following:   + Affordable, sustainable and secure energy   + Connected transport   + Urban living   + Integrated infrastructure and resilience of infrastructure to environmental and social pressures * Projects must be led by a business and include at least one SME. Universities can work as partners on these projects   **Funding and deadlines**   * Total project costs expected between £25k and £5m * Projects should last between 3 months and 3 years * Registration deadline: 14th September 2016 * Competition deadline: 21st September 2016 |
| [EDF energy inspection innovation challenge](https://www.gov.uk/government/publications/funding-competition-edf-energy-inspection-innovation-challenge) | **Scope**   * Aim is to identify new and innovative ways to inspect and monitor EDF Energy’s power generation assets * Call has two themes:   + Nuclear   + Offshore wind farms * Competition open to businesses of any size, and academic partners may be named   **Funding and deadlines**   * Total project costs between £5k and £10k for each project * Competition deadline is 28th September 2016 |
| [Low emission freight and logistics trial](https://www.gov.uk/government/publications/funding-competition-low-emission-freight-and-logistics-trial)  £24m available | **Scope**   * Two streams of funding available:   1. Industry-led trials of innovative vehicles or on-vehicle technologies   2. To develop innovative and disruptive on-vehicle technology, off-vehicle systems or new business models. These must reduce emissions * Projects must be led by a UK-based business. Universities are able to work as partners   **Funding and deadlines**   * For stream 1, total project costs are expected of between £500k and £5m. Projects should last between 18 months and 2 years * For stream 2, total project costs are expected of between £250k and £5m. Projects should last no more than 1 year * Registration deadline: 12th October 2016 * Competition deadline: 19th October 2016 |
| \*NEW\* [Low emission vehicle systems IDP13](https://www.gov.uk/government/publications/funding-competition-low-emission-vehicle-systems-idp13/competition-brief-low-emission-vehicle-systems-idp13)  Award £24m | **Scope**   * Support for industry-led R&D * Projects should lead to technologies that reduce or remove real-world emissions at tailpipe * Projects should focus on highway vehicles (L, M or N categories), although secondary exploitation of non-highway vehicles is within scope * Projects should focus on one of the following strategic technologies:   + Electric machines and power electronics   + Energy storage and energy management   + Lightweight vehicle and powertrain structures   + Thermal propulsion   + Highly disruptive technologies which would significantly speed up the reduction of CO2e and other emissions * Projects must be delivered in collaboration with others (businesses, research organisations, etc)   **Funding and deadlines**   * Projects are expected with total costs of between £200k and £4m * Project durations for up to 3 years * Registration deadline is 19th October 2016 * Application deadline is 26th October 2016 |
| [Aerospace Technology Institute (ATI) Strategic Research and Technology Projects](https://www.gov.uk/government/publications/funding-competition-aerospace-technology-institute-rt-programme)  Award TBC | **Scope**   * Innovate UK acts as the deliver partner for ATI R&D programmes * Innovate UK and ATI are looking for ideas about the broader opportunities that might be offered by the programme, as well as to support long-term planning   **Funding and deadlines**   * The programme is open to suggestions through to 31st March 2020 |
| BIM Level 3 digital challenges for energy utilities and transport infrastructure contractors  Award up to £10k | Expected soon |
| ERA-Net competitions, including sustainable urbanisation and solar systems  Award up to £1m | Expected October 2016 |
| Future Cities mission  Award up to £60k | Expected October 2016 |
| Infrastructure Systems competition 2  Award up to £15m | Expected January 2017 |

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|  | **Manufacturing and Materials**  *Focuses on the development, validation and application of cross-cutting manufacturing and materials technologies and processes to drive productivity and growth* |
| [APC6 – accelerating the drive to low carbon propulsion](https://www.gov.uk/government/publications/funding-competition-apc6-innovation-in-low-carbon-propulsion)  £25m available | **Scope**   * Collaborative R&D funding for innovative on-vehicle technologies. Vehicles can be either on-road or off-road * Proposals should be in one of the following technology areas:   + Internal combustion engines   + Lightweight vehicle and powertrain structures   + Electric machines and power electronics   + Energy storage and energy management   + Alternative propulsion systems * All projects must be business-led, collaborative, include at least one vehicle manufacturer and/or a tier 1 supplier, and include at least one SME. Universities can work as partners on these projects   **Funding and deadlines**   * Total project costs expected in the range of £5m and £40m * Projects should last between 18 months and 42 months * Registration deadline: 14th September 2016 * Competition deadline: 21st September 2016 |
| Manufacturing Readiness competition  Award up to £2m | Expected soon |
| \*NEW\* [Connected and Autonomous Vehicles competition](https://www.gov.uk/government/publications/funding-competition-connected-and-autonomous-vehicles-2/competition-brief-connected-and-autonomous-vehicles-2)  Award up to £25m | **Scope**   * Aim is to develop technical solutions for connected and autonomous vehicle features that provide real-world benefits to users * 4 streams are available; see website for further details * Non-automotive applications are NOT in scope * Projects must be carried out in the UK, and be collaborative   **Funding and deadlines**   * Total project costs between £250k and £30m dependant on stream * Project durations expected between 18 and 30 months dependant on stream * Briefing event on 8th September 2016 * Registration deadline is 2nd November 2016 * Competition deadline is 9th November 2016 |
| OLEV Integrated Delivery Programme 13  Award TBC | Expected October 2016 |
| Manufacturing and Materials competition 2  Award up to £15m | Expected November 2016 |

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|  | | **Open programme**  *Accessible to all businesses and academics undertaking innovation, irrespective of the technology or sector in which they are working* |
| \*NEW\* [Global cooperation feasibility studies](https://www.gov.uk/government/publications/funding-competition-global-cooperation-feasibility-studies)  Award up to £1.2m | **Scope**   * Funding for UK SMEs to carry out short, international cooperation feasibility studies * Studies should build international business networks, aiding future R&D partnerships * Projects should show the development potential of an idea, with global markets, impacts and follow-on activities detailed * Projects can be carried out alone or in partnerships with other UK organisations (including universities), though only UK SMEs will receive funding   **Funding and deadlines**   * Each project will receive up to £30k * Projects should last up to 4 months * Registration deadline: 21st September 2016 * Competition deadline: 28th September 2016 | |
| \*NEW\* [Helping to code patient records: apply for business contracts](https://www.gov.uk/government/news/helping-to-code-patient-records-apply-for-business-contracts)  Award over £250k | **Scope**   * Funding for projects that can help administration staff to record what happens to patients in hospital and meet government targets * Betsi Cadwaladr University Health Board wishes to reduce the manual effort involved in coding, whereby clinical codes are applied to patient conditions and the treatments they receive   **Funding and deadlines**   * £10k will be allocated to at least 5 proof of concept projects * The best 2 projects will receive £100k each * A briefing event is scheduled for 23rd September 2016; see website for details * Competition deadline is 10th October 2016 | |
| \*NEW\* [Project innovation fund for Prevent](https://www.gov.uk/government/publications/sbri-funding-competition-project-innovation-fund-for-prevent/sbri-funding-competition-brief-project-innovation-fund-for-prevent)  Award up to £1.5m | **Scope**   * Aim is to find innovative ways to prevent vulnerable people from becoming radicalised to support or carry out terrorism * Projects should adhere to one or more of the objectives listed on the website * Funding is NOT available for projects by statutory partners or to deliver training products * Any size organisation can apply, working alone or with others   **Funding and deadlines**   * Projects must be complete by the end of 2016/17 financial year * Total project costs in the range of £10k to £100k * Registration deadline is 5th October 2016 * Application deadline is 12th October 2016 | |
| \*NEW\* [IRC 2016 for explosives & weapons detection](https://www.gov.uk/government/publications/funding-competition-irc-2016-for-explosives-weapons-detection/competition-brief-irc-2016-for-explosives-weapons-detection)  Award up to £3m | **Scope**   * Aim is to identify and fund innovation in all aspects of explosives and weapons detection * Proposals may either improve effectiveness or efficiency of detection * Proposals welcomed for detection in:   + Buildings and areas   + Goods   + People and/or their possessions   + Vehicles * Detection in the aviation sector is NOT covered * Any organisation may apply, with SMEs, universities and non-commercial organisations encouraged to apply   **Funding and deadlines**   * Competition opens 12th September 2016 * Total project costs expected up to £2m * A bidders’ conference will take place in London on 27th September; see website for details * Registration deadline is 12th October 2016 * Full application deadline is 4th January 2017 | |
| [Many Drones Make Light Work](https://www.gov.uk/government/publications/cde-themed-competition-many-drones-make-light-work)  Award up to £3m | **Scope**   * The Ministry of Defence’s Centre for Defence Enterprise (CDE) is looking for technology solutions that demonstrate and evaluate the benefit of unmanned air system (UAS) swarms * Swarms should involve at least 20 UAS, acting in a coordinated way and managed by a single operator * Scope will address:   + Open, modular UAS   + Mission management of UAS swarms   + Development of technology enablers for UAS swarms   **Funding and deadlines**   * A CDE Innovation Network Event is scheduled for 22nd September. See website for more details * Competition deadline: 3rd November 2016 | |
| [CRACK IT 2016](https://www.crackit.org.uk/crack-it-challenges) | **Scope**   * Challenge-led competition that funds collaborations between industry, academics and SMEs to solve business and scientific challenges * This year’s challenges are:   + 22: Osteo-chip, an in vitro model to recapitulate the human osteoarthritic joint   + 23: Retinal 3D, a physiologically competent human retinal 3D model   + 24: EASE, eliminating surgical embryo transfer in mice   + 25: Maximise, maximising confidence while minimising data generation for acute hazard classification of mixtures   **Funding and deadlines**   * Competition launches in London on 8th September; see website for details * Up to £100k available for each call. Challenges 22 and 23 carry a second phase of funding that will increase to £1m * Projects under 24 and 25 can last up to 1 year; challenges under 22 and 23 may last up to 6 months for phase 1, and a further 3 years for phase 2 * Competition deadline for 22 and 23 is 9th November 2016; for 24 and 25 this is 16th November 2016 | |
| [Knowledge Transfer Partnerships](https://interact.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/knowledge-transfer-partnershi-1)  Funding available throughout the year | **Scope**   * KTPs offer businesses the opportunity to work in partnership with a University to obtain knowledge and expertise. Projects are designed to meet business challenges and embed sustainable innovation * The knowledge sought is embedded into the company through a project undertaken by a recently qualified gradate (known as the KTP associate) recruited specifically to work on that project * ***NB: Innovate UK is particular interested in applications related to cyber security***   **Funding and deadlines**   * Innovate UK part-funds the KTP. SMEs contribute 33% of the project costs, and larger companies contribute 50% * Deadlines run every two months. The next two are:   + 7th September 2016   + 2nd November 2016 * Be sure to follow @UniBham\_KTP on Twitter for regular updates on UoB KTPs | |
| Growth and scale competition  Award up to £2m | Expected October 2016 | |
| Open competition 2  Award up to £14m | Expected December 2016 | |