Housekeeping

• You will be muted throughout the webinar
• Please use the ‘Chat’ box to introduce yourself
• Please use the Q&A box to ask questions
• The webinar will be recorded, and you will be sent the link, along with other information, shortly after the webinar
# Agenda

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome and Housekeeping</td>
<td>Sheena Hindocha</td>
</tr>
<tr>
<td>KTN Introduction</td>
<td>Steve Morris</td>
</tr>
<tr>
<td>Circular Critical Minerals Supply Chains Programme Overview</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>Critical Minerals for Magnets Competition Scope</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>How to apply</td>
<td>Dawn Manser</td>
</tr>
<tr>
<td>Q&amp;A</td>
<td>Chair: Sheena Hindocha</td>
</tr>
</tbody>
</table>
About Us

• Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking - accelerating ambitious ideas into real-world solutions.

• We are part of the Innovate UK system that includes Innovate UK, Innovate UK EDGE and the Catapults.
Our Purpose and Vision

• Our purpose - We create diverse connections for positive change.

• Our vision - Together, we create networks of innovators so powerful, their ideas will change the world.
Our Values

Open
We value diversity of opinions, ideas, skills and perspectives.

Creative
We embrace ideas with curious minds and use our insight to uncover opportunity.

Collaborative
We are one team, working together across sectors, people and geographies to drive positive change.

Determined
We are determined to meet challenges with solutions and enable innovators to think and act beyond expectations.
<table>
<thead>
<tr>
<th>Our Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive Change</td>
</tr>
<tr>
<td>We create diverse connections to</td>
</tr>
<tr>
<td>drive positive change</td>
</tr>
<tr>
<td>Deep Expertise</td>
</tr>
<tr>
<td>We have wide-ranging expertise</td>
</tr>
<tr>
<td>and convene the expertise of</td>
</tr>
<tr>
<td>others</td>
</tr>
<tr>
<td>Powerful Connections</td>
</tr>
<tr>
<td>We drive powerful connections</td>
</tr>
<tr>
<td>with business at the heart of</td>
</tr>
<tr>
<td>what we do</td>
</tr>
<tr>
<td>Future Shaping</td>
</tr>
<tr>
<td>We shape the innovation</td>
</tr>
<tr>
<td>communities of the future</td>
</tr>
<tr>
<td>Our People</td>
</tr>
<tr>
<td>We provide an exceptional place</td>
</tr>
<tr>
<td>of work for our exceptional</td>
</tr>
<tr>
<td>people</td>
</tr>
</tbody>
</table>
We connect regional, national and global innovation

Our **Global Alliance** programme drives international collaborations with governments, societies, enterprises, institutions and people from every corner of the globe.
Global Expert Missions

Global Expert Missions (GEMs), funded by Innovate UK and delivered by KTN, drive the sharing of expertise across borders and foster global collaboration. They help to build international strategic partnerships and provide insight into innovation opportunities for the UK.
We connect innovators, funders and collaborators to transform ideas into solutions

KTN's Innovation Exchange programme connects companies with specific challenges to innovators who are already working on the solutions. Our unique cross-sector approach connects businesses with opportunities beyond their existing thinking.
Innovate UK

Innovate UK is the UK’s innovation agency: a non-departmental public body operating at arm’s length from the Government as part of UKRI.

Innovate UK KTN

Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking - accelerating ambitious ideas into real-world solutions.

EDGE

Innovate UK EDGE empowers innovation-driven businesses to grow at pace and achieve their industry- and society-transforming ambitions.
<table>
<thead>
<tr>
<th>Our Network</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>46,229 Unique Organisations</td>
<td>72%</td>
</tr>
<tr>
<td>15% Small</td>
<td></td>
</tr>
<tr>
<td>13% Medium</td>
<td>234,478</td>
</tr>
<tr>
<td>13% Large</td>
<td>innovators</td>
</tr>
<tr>
<td>Every university in the UK</td>
<td></td>
</tr>
</tbody>
</table>
Innovate UK KTN Team

Our role
To facilitate the links with stakeholders and grow the community to identify and address the challenges facing the UK in meeting the challenge of accessing critical minerals

About us
We are a cross sector team from the enabling technologies of chemistry and materials with access to other sectoral and application expertise within Innovate UK KTN

Sheena Hindocha
KTM Materials Chemistry

Matthew Reeves
KTM Materials Chemistry & Formulation

Stephen Morris
KTM Smart Materials & Technical Textiles

Debra Jones
KTM Chemistry

Megan Phoenix
KTM Investor Communities

Aileen Woodley
Campaign Lead – Net Zero

Ellie Collins
Event Manager

Bethany Hughes
Marketing Manager
Circular Critical Materials Supply Chains Networking Event - In Person

This live event will include an opportunity to:

• Learn about the UK Critical Mineral landscape

• Learn about the UK opportunity in rare earth elements

• Hear about current projects and innovation

• Highlight your project ideas with the community through pitch sessions

• Provide you with a networking opportunity

• Connect with Innovate UK KTN experts who can support you building a consortia

19th April
The Studio, Birmingham

Register here:
Call to Action

Sign up to CLIMATES mailing list
• Hear news about upcoming events, articles and activities
• https://info.ktn-uk.org/p/2VFU-EJD/climates

Build your consortia with Meeting Mojo
• Upload your profile, search other users’ profiles to connect and network
• Online messaging and 1:1 virtual meetings
• https://critical-climates.meeting-mojo.com/

Connect with the team
• Connect to KTN experts to support your innovation development
Find out more

@KTNUK

Sheena.hindocha@iuk.ktn-uk.org

Stephen.morris@iuk.ktn-uk.org

www.ktn-uk.org
## Agenda

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome and Housekeeping</td>
<td>Sheena Hindocha</td>
</tr>
<tr>
<td>KTN Introduction</td>
<td>Steve Morris</td>
</tr>
<tr>
<td>Circular Critical Minerals Supply Chains Programme Overview</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>Critical Minerals for Magnets Competition Scope</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>How to apply</td>
<td>Dawn Manser</td>
</tr>
<tr>
<td>Q&amp;A</td>
<td>Chair: Sheena Hindocha</td>
</tr>
</tbody>
</table>
# Agenda

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome and Housekeeping</td>
<td>Sheena Hindocha</td>
</tr>
<tr>
<td>KTN Introduction</td>
<td>Steve Morris</td>
</tr>
<tr>
<td>Circular Critical Minerals Supply Chains Programme Overview</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>Critical Minerals for Magnets Competition Scope</td>
<td>Martyn Cherrington</td>
</tr>
<tr>
<td>How to apply</td>
<td>Dawn Manser</td>
</tr>
<tr>
<td>Q&amp;A</td>
<td>Chair: Sheena Hindocha</td>
</tr>
</tbody>
</table>
CLIMATES: Circular critical materials supply chains

Programme overview

Dr Martyn Cherrington
Innovate UK
We work with the government to invest over £7 billion a year in research and innovation by partnering with academia and industry to make the impossible, possible. Through the UK’s nine leading academic and industrial funding councils, we create knowledge with impact.
Innovate UK

- We are the UK’s innovation agency
- We support business-led innovation in all sectors, technologies and UK regions
- A key delivery body of the Government’s Innovation Strategy

Our Mission

To help UK businesses grow through the development and commercialisation of new products, processes, and services, supported by an outstanding innovation ecosystem that is agile, inclusive, and easy to navigate.
Net Zero: Our Vision

For the UK to prosper from being the fastest transitioning economy to net zero
Strategic Delivery Plan 2022-2025

We will focus new programmes on key Net Zero themes:

**Power:** Develop new energy vectors to fuel vehicles, heat buildings and power industry.

**Mobility:** Move to electrified and net zero powertain and reduce carbon through digitilisation of transport.

**Heat:** Move away from gas heating space and water in all buildings.

**Net Zero Living:** Develop new products and services that transform where we live and work into net zero places.

**Make and Use:** Transform industry into an advanced, resilient and responsible system.

**Green Finance:** Increase private investment into green businesses and support their scale-up.

**Circular Critical Materials:** Develop supply chain resilience in a variety of mineral raw materials.

---

**Principles**

- Adaptation
- Circular Economy
- Energy Security
- Environmental Sustainability
- Just Transition
- Resilient Supply Chains
Electrification driving demand

- UK Government policy driving electrification across transport, energy and wider industry
  - Net Zero by 2050
  - Phase out sale of petrol and diesel cars by 2030
  - 50GW of offshore wind by 2030

- Demand for critical metals increasing rapidly:
  - BEVs require 6x metals compared to ICE
  - 650kg/MW of magnets in an offshore wind turbine
  - IEA forecast up to seven-fold increase in demand for rare earth’s by 2040 vs 2020

- Security of supply and resilience of supply chains is a major challenge for critical materials

European Commission, Critical materials for strategic technologies and sectors in the EU - a foresight study, 2020 p10
New Intervention in Critical Materials

- **CLIMATES**: Circular critical materials supply chains
- **£15 million** investment over 2 years
- Initial focus on **Rare Earth Elements**
- Activities aim to:
  - **inspire** innovation in the field
  - **involve** a wide range of stakeholders across the supply chain and
  - **invest** in innovative companies and projects

Key strategic alignment

- Supports the delivery of a wide range of objectives laid out by the UK Government in the *Resilience for the future: The UK’s critical minerals strategy*

- Key strategy aims are to:
  - **Accelerate** the UK’s domestic capabilities
  - **Collaborate** with international partners
  - **Enhance** international markets to make them more responsive, transparent and responsible

Complimenting and building on existing activities

Natural Environment Research Council
Engineering and Physical Sciences Research Council
Economic and Social Research Council
Biotechnology and Biological Sciences Research Council
CE-HUB
UKRI National Interdisciplinary Circular Economy Research
British Geological Survey
UK Critical Minerals Intelligence Centre
Interdisciplinary Centre for Technology Metals Economy
Driving the Electric Revolution Industrialisation Centres
Programme focus

Extraction and Processing
Novel and sustainable mining & up-stream processes, sustainable mid-stream processes, sustainable routes to rare earth alloys

Magnet Manufacture
Sustainable manufacturing routes to high performance magnets, increased specification of high-performance magnets

Circular Economy
Collection and sorting of REE containing products, sustainable routes for processing recovered rare earth metals

Alternatives
Novel materials for high-performance magnets, substitution for high-performance magnets
Programme structure

- Innovation
- Standards & Policy
- International
- Investment
- Skills & Talent

Leadership & Community Building
The CLIMATES team

Martyn Cherrington
Sheena Hindocha
Debra Jones
Matthew Reeves
Megan Phoenix

Steve Morris
Jonny Bunt
Aileen Woodley
Bethany Hughes
Ellie Collins
CLIMATES will:

- Grow international collaborations and bilateral projects with allied nations
- Improve business and public awareness of the importance of rare earth's
- Draw together the community to deliver industrial, and policy focused standards
- Unlock private investment from the City of London, and other financial centres, to grow this sector
- Deliver a resilient supply chain underpinned by the “Global Britain” vision
- Address the skills gap for critical materials
- Fund a portfolio of projects across the whole supply chain
Critical materials for magnets

Competition scope

Dr Martyn Cherrington
Innovate UK
Introduction & aims

- As part of the CLIMATES programme, Innovate UK will invest up to £5 million in innovation projects.
- The aim of this competition is to stimulate growth in a circular critical materials supply chain for high performance magnets.
- Collaborative innovation projects will address opportunities across the whole value chain and increase supply chain resilience.
Competition Structure

- This critical materials for magnets competition is split into 2 strands:
  - Strand 1: early-stage feasibility studies that will enable the adoption of new innovations in processes or technologies by industry that enable a more resilient UK supply chain for rare earth elements (REE)
  - Strand 2: mid and late-stage R&D projects that accelerate the industrialisation and commercialisation of innovative processes and technologies that enable a more resilient UK supply chain for REE
Scope: Rare earth elements only
15 lanthanides + Scandium & Yttrium
Scope

- Your project can cover one, or more, of the following areas:
  - Up-stream
  - Mid-stream
  - Down-stream
  - Circular supply chains
  - New and alternative materials

- Please note that the following detail is not exhaustive

- *If in doubt, contact:* support@iuk.ukri.org
Scope: Areas of interest (i)

Mining and up-stream

- development of sustainable mining processes for extracting REE from minerals. This includes the up-stream processes of leaching, separation and concentration of mixed REOs.
- processes that address management or valorisation of radioactive by-products

Mid-stream

- development of novel, sustainable mid-stream processing routes to REE metals
- increased efficiency or productivity improvements for mid-stream processing to REE metals
- development of novel, sustainable manufacturing routes to REE alloys
Scope: Areas of interest (ii)

Down-stream and magnet manufacture
- development of novel, sustainable manufacturing routes to REE magnets
- increased efficiency or productivity improvements for magnet manufacturing
- sustainable routes integrating materials from primary and secondary material feedstocks
- increased technical properties and performance of magnets
- decreased scrap production in magnet manufacturing

New and alternative materials
- development of novel materials for high-performance magnets
- substitution of materials for high-performance magnets
- cross-disciplinary mine to magnet approaches for materials identification
Scope: Areas of interest (iii)

Circular supply chains

- identification, collection, sorting, separation, dismantling REE containing final end-of-life products
- circular design of products containing high performance magnets
- safe and economic removal of high-performance magnets from final end-of-life products
- novel and sustainable routes for processing of recovered REE materials
- valorisation of scrap material produced during magnet manufacture
- environmental, societal, governance solutions for the provenance of REE materials for instance, sustainability models for life cycle analysis, measuring and accounting for embedded carbon, radioactivity and other environmental and societal impacts
Out of scope

We are not funding projects:
- that do not focus on the materials supply chain, either primary or secondary
- designing new magnet-free electric motors
- that are developing existing non-magnet products
- not focused on REE or a materials substitution
- not being primarily exploited in the UK
- addressing extending the life of magnet containing products

We cannot fund projects that are:
- dependent on export performance
- dependent on domestic inputs usage
All projects must:
• be led by a UK registered business
• collaborate with at least one other UK registered organisation

International partners are allowed but are not eligible to receive grant funding
## Cost, duration & project type

<table>
<thead>
<tr>
<th>Strand 1, feasibility studies</th>
<th>Strand 2, mid and late-stage R&amp;D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total costs: up to £500,000</td>
<td>Total costs: up to £1,000,000</td>
</tr>
<tr>
<td>Start on: 1 October 2023</td>
<td>Start on: 1 October 2023</td>
</tr>
<tr>
<td>Duration: up to 12 months</td>
<td>Duration: up to 18 months</td>
</tr>
<tr>
<td>Maturity: Low</td>
<td>Maturity: Medium / High</td>
</tr>
<tr>
<td>Project type: Feasibility study</td>
<td>Project type: Industrial research / Experimental development</td>
</tr>
</tbody>
</table>

Research organisations can share up to a maximum of **50%** of the total project costs.

Research organisations can share up to a maximum of **30%** of the total project costs.
Key dates

- Competition opens: 11\textsuperscript{th} April 2023
- Competition closes: 21\textsuperscript{st} June 2023, 11am
- Notifications sent: 21\textsuperscript{st} July 2023
- Projects commence: 1\textsuperscript{st} October 2023
Summary

- Businesses can apply for a share of £5M for innovative projects to stimulate growth in the critical materials supply chain for magnets
- 2 strands:
  - Strand 1: Feasibility studies
  - Strand 2: Mid- and late-stage R&D

Scope:
- Up-stream processes
- Mid-stream processes
- Down-stream, magnet manufacturing
- Circular supply chains
- Alternative materials

<table>
<thead>
<tr>
<th>Eligibility</th>
<th>Strand 1</th>
<th>Strand 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Project Costs</td>
<td>up to £500,000</td>
<td>up to £1,000,000</td>
</tr>
<tr>
<td>Duration</td>
<td>up to 12 months</td>
<td>Up to 18 months</td>
</tr>
<tr>
<td>Business-led</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Collaborative</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Project type(s)</td>
<td>Feasibility study</td>
<td>Industrial research or experimental development</td>
</tr>
</tbody>
</table>

Key dates:
- 5th April - Briefing webinar
- 11th April – Opens
- 21st June, 11am – Closes
- 21st July – Notifications
- 1st October – Projects start
Thank you
Eligibility criteria
Previously submitted applications

This competition **does** allow you to submit a previously submitted application.

<table>
<thead>
<tr>
<th>Previously submitted application</th>
<th>Not a Previously submitted application</th>
</tr>
</thead>
<tbody>
<tr>
<td>A previously submitted application is an application Innovate UK judges as <strong>not</strong> materially different from one you have submitted before (but it can be updated based on the assessors' feedback)</td>
<td>A brand-new application, project or idea that you have not previously submitted into an Innovate UK competition</td>
</tr>
</tbody>
</table>

**OR**

A previously submitted or ineligible application which:
- has been updated based on assessor feedback
- **and** is materially different from the application submitted before
- **and** fits with the scope of this competition
## Eligibility criteria

<table>
<thead>
<tr>
<th>Project eligibility</th>
<th>Total project costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• lead must be a UK registered business</td>
<td>Feasibility studies Strand 1 – up to £500,000</td>
</tr>
<tr>
<td>• must be collaborative</td>
<td>Industrial research and Experimental development Strand 2 – up to £1 million</td>
</tr>
<tr>
<td>• must carry out your project in the UK</td>
<td></td>
</tr>
<tr>
<td>• exploit the results from or in the UK</td>
<td></td>
</tr>
<tr>
<td>Project length</td>
<td>Feasibility studies Strand 1 – last up to 12 months</td>
</tr>
<tr>
<td></td>
<td>Industrial research and Experimental development Strand 2 – last up to 18 months</td>
</tr>
</tbody>
</table>
Types of organisations we fund

- Business – Small or Micro, Medium or Large registered in the UK
- Research Organisation (RO):
  - Universities (HEIs)
  - Not for profit distributing Research & Technology Organisation (RTO) including Catapults
  - Public Sector Research Establishments (PSRE)
  - Research Council Institutes (RCI)
- Public sector organisations and charities doing research activity

If you are 100% owned by a large parent company as a small subsidiary this means you are classed as a large company and will only be entitled to the relevant grant. For more information on company sizes, please refer to the company accounts guidance.
Compliance with the UK Subsidy Control Regime

On 1 January 2021, the UK left the EU and is no longer subject to EU laws on State aid. We draw your attention to the guidance issued by BEIS: Complying with the UK’s international obligations on subsidy control: guidance for public authorities. Please be aware this is a living document and may be updated by BEIS as time progresses.

The set rules (typically GBER) which we previously relied on for the limits of what we could award, have now been replaced by internal decisions based on the new BEIS Subsidy Control Regime, and on policy, which will in turn set out bespoke eligibility requirements for each funding opportunity.

Innovate UK is offering funding for this competition in line with the UK’s obligations and commitments to Subsidy Control. To ensure that Innovate UK remains compliant with the UK’s international Subsidy Control duties in respect of:

- the EU-UK Trade and Cooperation Agreement;
- Article 10 of the Northern Ireland Protocol (successful applicants which are affected by the Northern Ireland Protocol will be funded in line with EU State aid regulations)
- Article 138 of the Withdrawal Agreement (some Union law applicable after 31 December 2020 in relation to the UK’s participation in Union programmes and activities)
- the Subsidies and Countervailing measures within the WTO (ASCM)
- any other Free Trade Agreements active at the time of award

All awards will be conditional on compliance at all times with the UK’s International obligations on Subsidy Control - this will be reflected in the terms and conditions of any award.
Due diligence for UK Subsidy Control Regime

Under the Subsidy Control Regime, we will carry out financial health checks and ongoing concern assurances on your organisation.

Certify you are eligible

When submitting an application, you must certify that you are eligible for funding. If you are unsure, please take independent legal advice before applying. Should you be successful, we will complete these financial checks and assurances before confirming the grant offer.

- For more information on company sizes, please refer to the Company accounts guidance.
- Further information is available on our website in the general guidance.
If you are an applicant who is conducting activities that will affect trade of goods and/or electricity between Northern Ireland and the EU as envisaged by Article 10 of the Northern Ireland protocol, then you must apply under European Commission State aid rules.

Undertaking in Difficulty
For applicants subject to the European Commission State aid rules, you will be required to prove that they were not an “Undertaking in Difficulty” (UiD). We will ask for evidence of this.

This test applies to:
- companies that are more than 3 years old
- companies where more than half of its subscribed share capital has disappeared as a result of accumulated losses.
- your parent or holding company

Certify you are eligible
When submitting an application, you must certify that you are eligible for State aid. If you are unsure, please take legal advice before applying. Should you be successful, we will apply this test as part of our viability checks before confirming the grant offer.

Further information is available on our website in the general guidance under state aid.

If you are applying for an award funded under State aid Regulations, the definitions for company size are set out in the European Commission Recommendation of 6 May 2003.
Eligibility Criteria: Funding Opportunities

Funding for R&D projects split into 3 categories: feasibility studies, industrial research and experimental development.

For feasibility studies and industrial research projects, you could get funding for your eligible project costs of:
- up to 70% if you are a micro or small organisation
- up to 60% if you are a medium-sized organisation
- up to 50% if you are a large organisation

For experimental development projects which are nearer to market, you could get funding for your eligible project costs of:
- up to 45% if you are a micro or small organisation
- up to 35% if you are a medium-sized organisation
- up to 25% if you are a large organisation

For research organisations conducting fundamental research you could get funding for your eligible project costs of up to 100%.

For general guidance on what our research categories are please visit:
https://www.ukri.org/councils/innovate-uk/guidance-for-applicants/general-guidance/categories-of-research-and-development/#contents-list
Participation Rules

The aim of this funding opportunity is to:

- optimise the level of funding to business and
- recognise the importance of research base to project

At least 70% of total eligible project costs must be incurred by business.

The maximum level (50% or 30% of total eligible project costs) is shared by all research organisations collaborating on the project.
What is collaboration?

In all collaborative projects there must be:

- at least two organisations claiming grant within the application (including the lead)
- a business or RTO-led consortium, which may involve both business and the research base
- evidence of effective collaboration

We would expect to see the structure and rationale of the collaboration described in the application.
Making more than one application

Any one business may be involved in up to 6 applications across both strands of these competitions, but can only be the lead partner in a maximum of 3 application across both strands of these competitions.

The lead and at least one other organisation must apply for funding when entering their costs into the application.

A research & technology organisation can be a partner in any number of applications.

Successful applicants will be asked to confirm they have the capacity to run multiple projects simultaneously.
If you have an outstanding final claim or Independent Accountant Report (IAR) on a live Innovate UK project, you will not be eligible to apply to this competition, as a lead or a partner organisation.

We will not award you any further funding if you:

- applied to a previous competition as the lead or sole company and were awarded funding by Innovate UK, but did not make a substantial effort to exploit that award

- applied to a previous competition as the lead or sole company and failed to comply with grant terms and conditions.
# Key Dates

<table>
<thead>
<tr>
<th>Timeline</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Competition Opens</td>
<td>11 April 2023</td>
</tr>
<tr>
<td>Briefing Event</td>
<td>5 April 2023</td>
</tr>
<tr>
<td>Submission Deadline</td>
<td>21 June 2023, 11:00</td>
</tr>
<tr>
<td>Applicants informed</td>
<td>21 July 2023</td>
</tr>
</tbody>
</table>
Innovation Funding Service (IFS)
Search for a funding competition and review criteria

Accelerating innovation in rail 5

Businesses can apply for a share of £7.9 million for innovations to minimise disruption to train services and to develop initiatives for intelligent trains.

Eligibility:
To lead a project you can be a business of any size, and you must:

- be based in the UK
- carry out your project in the UK
- involve at least one small or medium-sized enterprise (SME)
- work collaboratively

Opening soon

Opens: 18 September 2017
Closes: 15 November 2017

Accelerating innovation in rail 5

Businesses can apply for a share of £7.9 million for innovations to minimise disruption to train services and to develop initiatives for intelligent trains.

Competition opens: Monday 18 September 2017
Competition closes: Wednesday 15 November 2017 12:00pm

This competition has not yet opened.

Summary

Eligibility: 
Scope: 
Dates: 
How to apply: 
Supporting information:

Description

Innovate UK, on behalf of the Department for Transport, will invest up to £7.9 million to support innovation and growth in national and international rail markets. This is a joint initiative with the rail industry, under the direction of Innovate UK’s Technical Leadership Group, the team responsible for creating a vision for the future of the railways.

The aim of this competition is to create innovations that address the main goals identified in the industry’s ‘Rail Technical Strategy: Capability Delivery Plan’ 2013. These are:

- ‘minimal disruption to train services’
- ‘intelligent trains’

Projects should last between 6 months and 2 years. If your proposed project falls outside of the project funding range or duration, please contact Innovate UK before you apply.
Lead Applicant: create an account

The lead applicant must create an account:

**UK registered businesses**
Use Companies House lookup as it speeds up our checks by providing your company number. You are unable to enter this at a later date.

**Research organisations, academics and universities**
Enter your information manually so you are not listed as a business on IFS and ensure you receive the correct funding.
Project Details

- **Application Team** - Collaborators can invite organisations who you are working with on the project. Contributors can invite colleagues from your own organisation to help you complete your application. All team members and Lead applicants must complete the Equality, Diversity and Inclusion survey embedded in IFS as part of your application.

- **Application Details** - Title, timescales, research category, innovation area and previously submitted application (y/n)

- **Subsidy basis** - Will the project, including any related activities, you want Innovate UK to fund, affect trade between Northern Ireland and the EU? All participants must complete this section.

- **Project Summary** - Short summary and objectives of the project including what is innovative about it

- **Public Description** - Description of your project which will be published if you are successful

- **Scope** - How does your project align with the scope of this competition? - If your project is not in scope, it will be ineligible for funding
# Application Questions

Detailed guidance available on IFS

<table>
<thead>
<tr>
<th>Application Form</th>
<th>Appendix?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question 1 Applicant location (not scored)</td>
<td>No</td>
</tr>
<tr>
<td>Question 2 Need or challenge</td>
<td>No</td>
</tr>
<tr>
<td>Question 3 Approach and innovation</td>
<td>Yes - optional</td>
</tr>
<tr>
<td>Question 4 Team and resources</td>
<td>Yes - optional</td>
</tr>
<tr>
<td>Question 5 Market awareness</td>
<td>No</td>
</tr>
<tr>
<td>Question 6 Outcomes and route to market</td>
<td>No</td>
</tr>
<tr>
<td>Question 7 Wider impacts</td>
<td>No</td>
</tr>
<tr>
<td>Question 8 Project management</td>
<td>Yes - mandatory</td>
</tr>
<tr>
<td>Question 9 Risks</td>
<td>Yes - mandatory</td>
</tr>
<tr>
<td>Question 10 Added value</td>
<td>No</td>
</tr>
<tr>
<td>Question 11 Costs and value for money</td>
<td>No</td>
</tr>
</tbody>
</table>
Application finances
To claim funding

Your business does not have to be UK registered with Companies House when you apply but it must be registered before you can receive funding.

You are unable to claim funding if:

- you are an overseas organisation, so your company number begins with FC
- your organisation is setup as a branch, so your company number begins with BR
- you are a collaboration with no formal structure of ownership or control, so your company number begins with ML
- you are a Crown Dependency:
  - if your company is based in Jersey, your company number begins with JE
  - if your company is based in Guernsey
  - if your company is based in the Isle of Man
British Overseas Territories

You are also unable to claim funding if your company is based in any of the British Overseas Territories (BOTs):

- Anguilla
- Bermuda
- British Antarctic Territory
- British Indian Ocean Territory
- British Virgin Islands
- Cayman Islands
- Falkland Islands
- Gibraltar
- Montserrat
- Pitcairn Islands
- Saint Helena, Ascension and Tristan da Cunha
- South Georgia and the South Sandwich Islands
- Turks and Caicos Islands
Your Project Cost Categories

- Labour
- Overheads
- Materials
- Equipment Usage
- Subcontractors
- Travel & Subsistence
- Other
Costs supported:
- Roles and number of days spent working on project (time sheets required)
- 262 work days per annum (less Public holidays and entitlement)
- paid by PAYE
- Employers NI, annual salaries, pension, Health insurance

Costs not supported:
- Dividends & bonuses
- Holiday (excluding that mentioned in eligible costs)
- Training days
- Names not roles assigned to project costs

---

Labour

You can claim the labour costs of all employees you have working on your project.

**Labour costs guidance**

If your application is awarded funding, you will need to account for all your labour costs as they occur. For example, you should keep timesheets and payroll records. These should show the actual hours worked by individuals and paid by the organisation.

Working days per year: 232

Number of staff and roles within the project:

<table>
<thead>
<tr>
<th>Role within project</th>
<th>Gross employee cost</th>
<th>Rate (£/day)</th>
<th>Days to be spent by all staff at this grade</th>
<th>Total costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>50000</td>
<td>£216</td>
<td>120</td>
<td>£25,862</td>
</tr>
</tbody>
</table>

Add another role

Total labour costs: £25,862
## Material costs

**Costs supported**  
Off the shelf items via 3rd Party suppliers  
Items from stock with the replacement of items invoice (used as evidence of supply)

**Costs not supported**  
Whole bulk buy invoices, when only partially used with project work  
Items from stock that aren’t being replaced  
Equipment treated as assets

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Cost per item (£)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software</td>
<td>1</td>
<td>10000</td>
<td>£10,000</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>£0</td>
</tr>
</tbody>
</table>

Total materials costs £10,000
Subcontractors*

Costs supported
Justification required if non-UK supplier chosen
Independent contractor via 3rd Party suppliers
Linked supplier must be charged at cost
Description of work covered

Costs not supported
Intercompany uplifts or profits
Overseas contractors, if UK contractor available—without justification

*You will be required to provide invoices and a description of work
Travel and subsistence*

**Costs supported**
- Rail, Car or Plane**
- Mileage at HMRC rate
- Hotel (Bed and Breakfast)
- Reasonable food costs (overnight stay only)

**Costs not supported**
- Fuel
- First class travel
- Entertaining or marketing
- Visas
- Unreasonable food costs (overnight stay only)

*You will be required to provide vouchers, tickets and invoices and ** must provide number of people travelling, the destination and purpose of visit*
Innovate UK’s included costs are those incurred as a direct result of the project.

**Costs supported**

- Additional costs for administrative staff
- Day to Day Calculation for those people listed in the Labour Costs Table, multiplied by the numbers of days working on the project work.

**Costs not supported**

- Excessive costs of Senior Managers only overseeing project activities
- Business as usual day to day rates for Administration
- Uplifts of any kind

---

**Overheads**

You can incur overhead costs associated with those directly working on the project as well as indirect (administration) overheads. To be eligible both overhead categories need to be directly attributable to the project. The indirect overheads need to be additional as well as directly attributable. Note that there are certain cost categories/activities which are not eligible. To find out which costs are ineligible/eligible refer to our [project costs guidance](#).

**Overhead costs**

<table>
<thead>
<tr>
<th>Option</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>No overhead costs</td>
<td>£44,483</td>
</tr>
<tr>
<td>20% of labour costs</td>
<td></td>
</tr>
<tr>
<td>Calculate overheads</td>
<td></td>
</tr>
</tbody>
</table>

**Calculate overheads**

If you feel your overheads are higher than 20% you may calculate a value using the Innovate UK model in the spreadsheet available below. The model shows you which types of indirect costs associated with your project you may claim. For support with this option, please contact our Customer Support Service on 01793 44 2700. Any value claimed under this model will be subject to a review. This will assess the appropriateness of your claim if your grant application is successful.

- **Download the overhead calculation spreadsheet**
  - [overhead calculation spreadsheet.xlsx](#) (16KB)
  - [overhead calculation spreadsheet.ods](#) (10KB)

**Upload your completed spreadsheet**

No file currently uploaded
Costs supported:

Usage costs for the period of use
A justification if greater than expected
Depreciation charge is included

Costs not supported

Purchase price of equipment
Usage costs for the whole of the project period if only used for part of the time
100% write down within the project timeline**
*Please provide your Fixed Asset Register
**If not applicable
Other*

Costs supported
Facility usage**
Licence fees (or appropriate proportion)
Miscellaneous (not covered in other categories)
Quality certification***
Specific PPE
Dissemination costs
Patent filing costs (for SMEs only) limited to £7.5k

Costs not supported
Facility charge rates
Marketing
Trademark
Undefined mixed costs
Contribution in kind
Business as usual costs

*You will be required to provide invoices and basis of daily rates
**At daily or hourly cost
***Where required for sign off
Funding

Funding rules
The level of funding awarded will depend upon the type of organisation and the type of research being undertaken in the project.

Funding is calculated by project participant.

IFS will advise the maximum grant % you can request based upon your answers to:
- type and size of organisation
- research category defined by the lead applicant in the Application Details section of the application.
<table>
<thead>
<tr>
<th>Organisation or type of activity</th>
<th>Technical feasibility studies and industrial research</th>
<th>Experimental development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business (economic activity)</td>
<td>Micro or Small – 70%</td>
<td>Micro or Small – 45%</td>
</tr>
<tr>
<td></td>
<td>Medium – 60%</td>
<td>Medium – 35%</td>
</tr>
<tr>
<td></td>
<td>Large – 50%</td>
<td>Large – 25%</td>
</tr>
<tr>
<td>Research organisation (non-economic activity)</td>
<td>Universities – 100% (80% of Full Economic Costs)</td>
<td>Other research organisations must:</td>
</tr>
<tr>
<td></td>
<td>Other research organisations can claim 100% of their project costs</td>
<td>• be non-profit distributing and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• disseminate the project results and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• explain in the application form how this will be done</td>
</tr>
<tr>
<td>Public Sector Organisation or Charity (non-economic activity)</td>
<td>100% of eligible costs</td>
<td>Must:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• be performing research activity and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• disseminate project results and explain in the application form how this will be done</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ensure that the eligible costs do not include work / costs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>already funded from other public sector bodies</td>
</tr>
<tr>
<td>Research organisations (undertaking economic activities)</td>
<td>Micro or Small – 70%</td>
<td>Micro or Small – 45%</td>
</tr>
<tr>
<td>Organisations receive funding related to the size of their organisation</td>
<td>Medium – 60%</td>
<td>Medium – 35%</td>
</tr>
<tr>
<td></td>
<td>Large – 50%</td>
<td>Large – 25%</td>
</tr>
</tbody>
</table>
Academic partners
Why Je-S?

We use the Research Councils’ Joint Electronic Submission System (Je-S) to collect academic finances. The Je-S system automates the collection of Full Economic Costs (FEC) based costs from academic partners and tells them exactly what numbers should be used in the application form for their costs. Also to collect project finance details from non-HEIs (e.g. RTOs) that are claiming they are carrying out academic quality work and want to be funded on an FEC basis.

Using Je-S means that Innovate UK follows standard Research Council guidelines on funding universities and enables Research Councils to easily co-fund Innovate UK projects.

The Je-S system is completely separate from Innovate UK and we cannot advise on its usage.
Project costs – academic partners

Enter the TSB reference number here

Enter the TSB Contribution column figures from your J-eS output document into the project costs section of the application.

Upload the Je-S with council status form as a PDF at the bottom of the screen.

Any queries, contact Je-S Helpdesk (not Innovate UK)

- jeshelp@je-s.ukri.org
- 01793 444164
Submitting your application
All organisations have marked their finances as complete.

Research organisation participation is no greater than **50% for strand 1** and **30% for strand 2** of the total project costs.

IFS DOES NOT VALIDATE TOTAL PROJECT COSTS

### Finances Summary

The following organisations have not marked their finances as complete:
- EMPIRE LTD

⚠️ Return to the finances section to complete your finances.
This application cannot be submitted unless finances have been marked as complete by all partners.

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Total costs</th>
<th>% Grant</th>
<th>Funding sought</th>
<th>Other public sector funding</th>
<th>Contribution to project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barry Shaw Experts Ltd</td>
<td>£230,162</td>
<td>70%</td>
<td>£161,113</td>
<td>£0</td>
<td>£69,049</td>
</tr>
<tr>
<td>EMPIRE LTD</td>
<td>£282,655</td>
<td>70%</td>
<td>£197,859</td>
<td>£0</td>
<td>£84,797</td>
</tr>
<tr>
<td>University of Bath</td>
<td>£239,114</td>
<td>0%</td>
<td>£0</td>
<td>£0</td>
<td>£239,114</td>
</tr>
</tbody>
</table>

| Total                 | £751,931    | £358,972| £0             | £0                          | £392,959                |
Editing a submitted application

Reopen by clicking here

Remember to press ‘Submit application’
Customer Support can help resolve any issues you might have when submitting but only if they are contacted before the deadline. Once the deadline has passed, your application cannot be submitted.
Assessment
How do our assessors assess?

www.improveniuk.ukci.org
0330 301 4067
How are successful applications selected for funding?

www.innovateuk.ukri.org

0300 321 4357
Project setup for successful applicants
Notification

If you are unsuccessful in this competition
You can use the feedback from the assessors to develop your idea and apply into another competition that allows previously submitted applications

If you are successful in this competition
- you will be assigned a Delivery Executive who will guide you through the Project Set Up process
- you will have 7 days to complete the project team, project details and bank details
- you will then have 90 days to complete project set up – funding may be withdrawn if this is not completed within this timeframe

Please ensure all your contact details in the IFS portal are correct and up to date and that you regularly monitor it.
Project set up

- All communication will be through IFS.
- Lead applicant must provide collaboration agreements and exploitation plans if applicable.
- Any partners with individual total project costs of up to £50,000 must provide evidence with a Statement of Expenditure (SoE).
- Any partners with individual total project costs above £50,000 must provide evidence with an Independent Accountants Report (IAR).

Project delivery

- All grants are paid quarterly in arrears and are only paid following quarterly reporting and necessary audits.
- Claims can only be made for costs incurred and paid between the project start and end dates.
- Monitoring of the project includes a visit from the appointed Monitoring Officer.
Additional Support
Innovate UK EDGE

Bespoke growth and scaling support at the business end of innovation

- Intensive growth and scaling support tailored to the needs of each of our ambitious innovation-driven clients
- Offered alongside project funding to Innovate UK award winners, most of whom engage us. We are also available to all high growth potential innovative small or medium-sized businesses*
- Engagement at early, growth and scaling stages, with our core high growth service and enhanced Scaleup Programme
- Delivered by 290 innovation and growth specialists embedded in regional ecosystems across the UK, including a board of expert scaleup directors

*subject to eligibility and currently in all nations and regions outside Scotland
Innovate UK EDGE

An innovation and growth specialist, or scaleup directors, work with a company’s leadership to hone its commercial strategy and help it take targeted action to, for example:

- Build investment readiness
- Manage innovation effectively
- Enter global markets
- Providing local to national to international growth and scaling support
Innovate UK EDGE

Business growth for innovative companies

Contact us via: innovateukedge.ukri.org
Equality, Diversity & Inclusion

• We are on a mission to embed Equality, Diversity, and Inclusion in everything we do, internally and externally.

• We believe that great ideas can, and do, come from anyone and everyone.

• We know that diversity and inclusion in businesses contributes to enhanced innovation, satisfaction, performance, and ultimately, commercial success.
Available Support

• We welcome and encourage applications from people of all backgrounds and are committed to making our application process accessible to everyone.

• This includes providing support for people who have a disability or long-term condition and face barriers applying to us.

• So, if you would like any support, please contact our Customer Support Service Team on support@iuk.ukri.org or at 0300 321 4357.
## What to Expect

1. Contact our Customer Support Services Team as early as possible – we suggest at least 15 working days before the deadline.

2. Complete a request form which will be sent to our partner Diversity & Ability (D&A).

3. D&A will conduct a Discovery Conversation with you and make reasonable adjustments recommendations.

4. D&A will organise and deliver bespoke reasonable adjustments for and with you.

5. Submit your application – please do so well ahead of the deadline as extensions cannot be provided.
Contact

Customer Support Services
0300 321 4357 (Monday - Friday 9-5pm)
support@iuk.ukri.org

Innovate UK
ukri.org/councils/innovate-uk

Innovate UK KTN
ktn-uk.co.uk

Innovate UK EDGE
innovateukedge.ukri.org
Thank You
Q&A

Please use the Q&A box to ask questions
Call to Action

Sign up to CLIMATES mailing list
• Hear news about upcoming events, articles and activities
• https://info.ktn-uk.org/p/2VFU-EJD/climates

Build your consortia with Meeting Mojo
• Upload your profile, search other users’ profiles to connect and network
• Online messaging and 1:1 virtual meetings
• https://critical-climates.meeting-mojo.com/

Connect with the team
• Connect to KTN experts to support your innovation development
Thank you

@KTNUK