ADVANCED MATERIALS RESEARCH & INNOVATION

HENRY ROYCE INSTITUTE

ROYCE

2024 Industrial Collaboration Programme

Briefing Session and Q&A

20th March 2024

12:00 – 1:00

Before we start:

- This session will be recorded and made available on the Royce website, please do share this recording with your contacts
- Q&A Button: Please add questions during the course of the webinar and these will be answered either at the end of the meeting (or afterwards via the frequently asked Q&A notes)

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Royce – Industrial Collaboration Programme (ICP)

This is the fourth iteration of the Royce ICP funding programme.

The Royce ICP aims to:

- Support industry-academic collaborations,
- Help industry solve industrial problems and promote UK growth,

Previous ICP projects have:

- Aided the development and optimisation of products,
- Helped companies create jobs through supporting R&D,
- Allowed companies to bring in new investment through proven results,

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Summary:

Royce Industry Collaboration Programme (ICP) 2024

Focused on short term collaborative RD&I projects that should explore innovative ideas with a focus on technology translation. Projects must:

- Be between £50k-£125k and incur costs within the project's duration
- Must include at least one business and at least one university or RTO,
- Carry out the work and intend to exploit the results in the UK,
- Be a new project or activity that has not already started,
- Must run between the 1st of October 2024 – 28th February 2025,

Participation of Royce partners & facilities in projects is optional but strongly encouraged.

It is anticipated that a minimum of £3M of funding will be awarded.

Application Deadline: 5pm, 13th May 2024
Further details available on the Royce Website

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ABOUT THE FUNDING CALL

Universities, research and technology organisations and companies can apply for funding up to **total project costs** of £125,000 for exploring innovative ideas with a focus on technology translation. These projects will be supported by the Henry Royce Institute for Advanced Materials through its research, development, and innovation industrial collaboration programme.

Academic organisations and research and technology organisations undertaking non-economic activity can obtain the following funding:

- Up to 80% of full economic costs (FEC) for UK Je-S registered institutions **or**
- 100% of project costs for RTO, charity and not-for-profit organisations

Access to Royce facilities will be funded at 100% for academic and RTOs and should be included in their project costs.

Companies can claim a grant equal to a percentage of their total project costs:

	Feasibility Study	Industrial Research	Experimental Development
Small Enterprise	70%	70%	45%
Medium Enterprise	60%	60%	35%
Large Enterprise	25%	25%	25%

Fundamental research projects are ineligible for funding.

Projects are expected to start from the **1st October 2023** and Royce-funded project expenditure must be completed by **29th February 2024**.

The Royce Research and Business Engagement team is available to discuss potential project ideas, particularly from businesses who are unfamiliar with the expertise and capabilities across Royce. Please contact them at info@royce.ac.uk

The application deadline is the **30th June 2023 at 17.00.**

RESOURCES

Download the Guidance Document

Download the FAQ

Download the Claims Process Guidance

Download the Costing Form

Access Online Application Form

Download Application Form Copy

Attend the Briefing Session

Royce Industry Collaboration Programme (ICP) 2024

Further details available on the Royce Website

Application Deadline: 5pm, 13th May 2024

Who Can Participate:

To collaborate or lead, you must be one of the following:

- **Academic institution**
- **Research and technology organisation (RTO),**
- **Charity or not for profit organisation**
- **Business of any size**

UK registered companies may participate and claim funding. International companies are eligible for participation but cannot claim funding.

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Who Can Participate:

Project leads can be:

- **An appropriate senior manager from industry (e.g. R&D Manager, CTO, etc.)**
- **A researcher holding an academic position (e.g. lecturer or equivalent)**
- **Holders of early career fellowships whereby the university grants you the same stature as a permanent academic staff member.**
- **University or research and technology organisation technical professional services staff (e.g. Technical facility experimental leads and technical specialists or equivalent)**

Postdoctoral fellowships are ineligible.

Project Leads can lead one proposal and collaborate on one additional proposal.

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Competition Scope

Projects must fall within the following scope areas:

- **Sustainable Materials Innovation (emphasis on foundation industries)**
- **Quantum Technologies and Semiconductor materials**
- **Energy Innovation and Hydrogen Technologies**
- **Healthcare Innovation**

The full details are given in the Competition Guidance Document.

It is up to the applicant to demonstrate in their proposal how their project fits the competition scope as defined in the competition guidance.

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Competition Scope

Overarching theme	Proposed scope area
Sustainable Materials Innovation (emphasis on foundation industries)	• Materials innovations seeking to minimise environmental impact. • ***Resource Efficiency and Scarcity***: Innovations in materials use and recycling to address the scarcity of critical minerals and reduce dependence on limited resources.
Quantum Technologies and Semiconductor Materials	• ***Materials for Quantum Computing***: materials enabling second-generation quantum devices. • ***Quantum Sensors and Imaging Systems***: New material concepts allowing improved resolution and sensitivity in proof-of-concept quantum devices for targeted applications. • ***Innovations for semiconductors***: new materials to support semiconductors achieve superior properties and efficiencies.
Energy Innovation and Hydrogen Technologies	• ***Hydrogen Production, storage and Utilization***: Materials innovations to support hydrogen's role in the energy transition, including production, storage, transport, and utilisation. • ***Advancements in energy materials***: materials for enabling a new generation of energy storage and conversion technologies, to ensure scaling up efficient and low-cost solutions. • ***Sustainability in Energy Systems***: Innovative materials and processes that contribute to a green energy landscape.
Healthcare Innovation	• ***Advanced Manufacturing for Healthcare Devices***: New material paradigms for creating bespoke medical devices and implants ensuring biocompatibility. • ***Material Innovations in Healthcare***: Materials for medical applications that interface effectively with biological systems to realise a healthier population.

Funding Model

- The grant awarded to successful projects covers a proportion of the project partners eligible costs. The grant amount is determined by the type of recipient (University, RTO, or business).

- Academic organisations and RTOs undertaking non-economic activity can obtain funding:
  - Up to 80% of full economic costs (FEC) for UK Je-S registered institutions or
  - 100% of project costs for RTO, charity and not-for-profit organisations
- Access to Royce facilities will be funded at 100% for academic institutions and RTOs and should be included in their project costs.

- Companies can claim a grant equal to a percentage of their total project costs depending on their size and the project's research, development and innovation classification

	Feasibility Study	Industrial Research	Experimental Development
Small Enterprise	70%	70%	45%
Medium Enterprise	60%	60%	35%
Large enterprise	25%	25%	25%

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Royce Support- Application Scientists

Dedicated Royce application scientists have been recruited by to support short-term industry-led project delivery. The application scientist team is available as a shared resource and can be costed into proposals where dedicated support does not exist. If you have any questions on how to utilise Application Scientists in your project please email: grants@royce.ac.uk

Application scientists are available in the following thematic areas and locations:

Location	Expertise
Manchester	• Chemistry, Polymers, Textiles & Fibre Spinning, Nanomaterials – composites and hybrids, 2D Materials, Metallurgy and Additive Manufacturing, Life Cycle Analysis, Electrochemistry, Corrosion and Protection, Superconducting Coatings, Hydrogels, Bioprinting, Electron Microscopy, X-Ray Tomography,
Sheffield	• Metals Processing, Powder Metallurgy, Field-assisted Sintering Technology, Titanium Alloys,
Liverpool	• Chemistry, Metal-Organic Frameworks, High-Throughput Discovery, Robotic/Automated Synthesis,
Oxford	• Electrochemistry, Design Of Li-ion Batteries, Handling Air-Sensitive Materials, Cell Building & Fabrication, Pilot Scale Demonstrators, Electrochemical Formation & Grading, Fault Finding and Analysis, Mechanical Testing, Analysis: SEM/EDX, CT scanning, PSD, Titrations, DSC, TGA, XRD, GC, MS, IR.
Cranfield	• Coating Deposition, Thin Films, Thermal Spray, CVD, PVD, Microstructural Analysis, Hydrogen Permeation Barriers, Heat Treatment, Corrosion, Analytical Techniques,

Eligible costs- Academia

Item	Eligible cost	Notes
Directly incurred:	PDRA costs	Should be an existing staff member
	Consumables and minor equipment	The maximum individual consumable cost is £10k
	Equipment usage	Costings should be obtained from the appropriate facilities manager Contact **grants@royce.ac.uk** Royce facilities are funded at 100% FEC.
	Capex	<20% of total project costs can be allocated to buy or enhance a Royce facility
	Travel and subsidence	Max £5k
	Training and development	Max £5k
	Events and outreach	Max £2k
	Subcontractor	With prior agreement from **grants@royce.ac.uk**
Directly allocated:	Investigator time	
	Technician, technical specialist	
	Application Scientists	Funded at 100% FEC
Indirect Costs:	Estates, technician IS and other costs	

Eligible costs- Industry, RTOs, Charities

Eligible cost	Notes
Labour	PAYE costs only
Overhead	The Royce funds a flat 15% rate for labour for overheads only.
Materials and minor equipment	Maximum individual consumable cost is £10k. All items procured under this category must be used solely for research and not for commercial purposes.
Capital expenditure (>£10k)	Ineligible
Capital usage / equipment usage	Allowed as per UKRI guidance
Subcontractor costs	With prior agreement
Travel and Subsistence	Max £5k

Application Process

- All applicants must complete an online application form and costing sheet.
- If a project partner does not wish to claim grant funding or wishes to provide in-kind or cash contribution towards the total project costs, it should outline this on a company letterhead document signed by a senior company official.
- Costing for Royce facilities should be done via the Academic/RTO tab in the costing spreadsheet.
- A Collaboration Agreement must be signed prior to the start of the project.

Application Deadline: 5pm, 13th May 2024

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Assessment Criteria

Your application will be confidentially shared with, and assessed by an independent panel made up of experts in the field from industry and academia against the following criteria:

Question 1 - The idea: What is the problem you wish to solve and why is your proposed approach a good and innovative solution?

- The specific innovation you propose to develop,
- How your innovation is different and better than alternative solutions,
- Any barriers to adoption and how they could be overcome,
- Why your solution is novel, important and timely,

Question 2 - Work packages and costs: What will you do with the grant funding? How will you manage the project and risks effectively?

- Describe your project's main work packages, who leads them and tasks associated with each,
- List outputs in terms of specific deliverables, ideally per work package,
- Outline the project risks and how you will mitigate them,
- Describe what the funding will be spent on, referring to costs for the main work packages,
- Your freedom to operate for example, patents, IP,

Question 3 - Project resources and capabilities: Explain why you and your partners are capable of delivering this project.

- What resources and facilities (whether Royce or external) you can access, including the main people and teams involved and relevant track records
- What are the contributions from each project partner and why the project is an effective collaboration leading to technology translation
- Your capability to deliver in the required timeframe given your existing business activities or constraints

Question 4 - Impact and added value: What will be the impact of receiving the grant to your project?

- What is the expected impact of the project? This may be academic or economic impact for the project partners but also environmental, societal, health or other impact for the broader UK,
- Why public funding is necessary and value for money, for example, is there currently a lack of investment, or market failure?
- How the project will progress and deliver outcomes beyond the life of the project and under what timescale,

Timeline

All Projects must end by the 28th of February 2025

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* Submission must be made via the online form

Q&A and Further Enquiries

- Please email any queries to: grants@royce.ac.uk
- To apply please visit https://www.royce.ac.uk/industrial-collaboration-programme/

Please put any questions you may have in the chat and a member of the Royce Team will reply.

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