THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

FACULTY OF SCIENCE & ENGINEERING

FSE RESEARCH INSTITUTES

SIR HENRY ROYCE INSTITUTE FOR ADVANCED MATERIALS

ROYCE INDUSTRY FELLOW - LIFE SCIENCE

VACANCY REF: SAE-025183

Salary:	Grade 8 £57,696 to £68,857 per annum, depending on relevant experience
Hours:	Full Time (part time considered)
Duration:	Fixed term for 12 months in the first instance
Location:	Oxford Road, Manchester

Enquiries about the vacancy, shortlisting and interviews:
Name: Head of Research and Business Development, ania.jolly@manchester.ac.uk
Email: To request an informal discussion about the role with the Head of Research and Business Engagement, Dr. Ania Jolly, please contact Oliver Drakeford (Project Administrator and PA) oliver.drakeford@manchester.ac.uk

---

Background:

The Henry Royce Institute (https://www.royce.ac.uk/) is a UKRI-funded national institute, supporting advanced materials research and innovation. With its Hub at The University of Manchester, the Institute has spokes at ten Partner and Associate organisations: the Universities of Sheffield, Leeds, Liverpool, Cambridge, Cranfield, Oxford and Imperial College London, as well as at the UK Atomic Energy Authority, the National Nuclear Laboratory and the Advanced Forming Research Centre Catapult. Royce's vision of 'advanced materials for a sustainable society' is delivered through:

- Enabling national materials research, collaboration, fore-sighting and strategy: Working to shape our materials research landscape by convening and connecting the UK materials community, engaging with government and policymakers, and bridging industrial sectors to ensure maximum impact from the UK's research endeavour.
- Providing access to world-leading facilities and research expertise: Providing fast and flexible access for the UK research community to cutting-edge equipment and highly skilled technical staff to ensure high-impact research and innovation as an outcome.

- Catalysing industrial collaboration and accelerating translation: Implementing programmes and interventions that meet the challenges of advanced materials translation throughout the value chain, from start-ups to SMEs and corporates.
- Fostering materials science skills development, innovation training and outreach: Providing professional development to empower the next generation of materials researchers and leaders with technical and business skills through a comprehensive support and outreach programme.

Overall Purpose of the Role

The aim of the Royce Industry Fellow will be to enable and foster academic and industrial engagement within the Biomedical Materials and Chemical Materials Design research areas as well as to foster cross sector collaboration between clinical research organisations, NHS Trusts and other key stakeholders in the Life Science Industry and the Royce Institute. They will help establish links across the technology and manufacturing readiness levels, engage low TRL activity in high TRL problems arising in the Life Science industry, and accelerate impact from breakthrough academic ideas into manufacturing research across the UK's industrial base. The role of the Royce Industry Fellows will be essential in providing the interface between the wider Life Science industry needs in Materials Innovation and capabilities with that of the HEI and research network spanning the materials community.

They will act as a knowledge exchange engine for the Royce Institute working closely with the Research area leads, the Technology Platform leads, major Flagship programmes associated with Royce e.g. Tata Steel/Royce Centre for Innovation (CFI) in Advanced Materials, and other key organisations across the UK (e.g. Research Institutes, Clinical Research Organisations (CROs) and Catapult centers). They will also help key Royce programmes to think and act strategically around the research and innovation needs of the Life Science Industry sector, defining the next steps. The roles will suit those with a strong network across the Life Science Industry sector, wide experience of research and development across the technology readiness as well as an appreciation of university research capability and delivery. They should be able to have an immediate impact within Royce and be able to work with, and form, a diverse set of teams, including the new role of Application Scientists which are being appointed across Royce to support the technical aspects of project delivery for industry. Once challenges and opportunities have been identified they will work with the Royce RBE/project delivery teams to identify how we can address them, either as separate centres or collaboratively.

Key Relationships:

- Industry and Research Organisations
- Projects leads and staff within the CROs, Catapult Centers, NHS Trusts, and other key relevant Research Institutes
- R&D staff from large and small businesses across the Life Science Industry Sector
- Innovate and the other Research Councils
- Knowledge Transfer Network
- Across Royce
- Head of Research and Business Engagement

- CTO
- Technology Platform Leads
- Facilities Managers
- Application Scientists
- Academics and Technical staff with experience relevant to specific short projects
- Research Area and Challenge Area Leads

Key Responsibilities, Accountabilities or Duties:
Royce is an evolving, dynamic organisation and the appointees will therefore be expected to demonstrate flexibility and adaptability to meet its developing needs. Further, given the challenges of the sub-sectors of the Life Science industry sector, the fellows will be expected to show a high level of initiative and to become fully immersed in the activities of these industries and key stakeholders organisations.

The indicative range of duties is expected to include, but is not limited to, the following:

<u>Creation and Delivery of Industry driven projects:</u>

- Pro-active engagement with companies, research technology organisations, Research Institutes and to identify and develop high impact research projects drawing in low TRL expertise in Royce and UK universities to help solve high TRL problems
- Strategic engagement with prospective clients, working with facilities and business engagement teams and industry technical leads
- Acting as a technical lead to guide more complex projects with positive outcomes
- Mentor the Royce Application Scientist team, particularly in the delivery of more complex multidisciplinary projects
- Help identify potential projects and collaborations between Royce's partners and strategic industry partners that can create follow-on opportunities
- Work to ensure the facilities of Royce are exploited for maximum industrial technology translation benefit

<u>Developing Relationships and Delivering Impact:</u>

- They will serve as the focal point of integration between Royce and the Life Science Industry sector, CROs, and RTOs
- Lead research network and stakeholder engagement with wider industry and funding bodies in collaboration with key leads in Royce and the key relevant RTOs and CROs
- Look across the Life Science Industry sector and the RTOs to identify common or vital challenges
- Establish and develop ongoing collaborations between Royce, companies and the wider HEI community
- Work with Royce and Business Engagement and Communications teams to ensure impact from projects is captured and reported

- Lead the wider Applications Scientist team in the sharing of information, best practice in the development and delivery of projects

General:

- Undertake the above duties in accordance with the requirements of the University's and Royce's equality & diversity policies, health & safety policies, and its financial regulations
- Maintain confidentiality of information in line with data protection requirements and University policy and ensure information governance disciplines are embedded within working practice
- Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities
- Undertake any other duties commensurate with the grade

Essential Knowledge, Skills and Experience:

- A PhD (or equivalent experience gained within industry R&D) in Materials Science, Chemistry, Physics or a Biomedical related discipline
- Nationally acknowledged materials/processing expertise in the Life Science Industry sector
- Experienced research leader with track record of initiating and delivering high impact research programmes with/in the Life Science industrial sector
- Excellent and efficient communication skills including presenting and writing technical reports
- A successful track record in directing and leading a technical team, delivering complex research projects directly applicable to industry
- A track record in innovative approaches to delivering research impact and managing a diverse group of stakeholders
- Excellent project management skills and the ability to identify and direct improvements to processes and systems
- Excellent planning, time management and organisation skills, the ability to balance conflicting deadlines and multiple priorities
- Excellent network of relevant researchers in industry and academia
- Excellent communication and stakeholder management skills – passion for developing a team ethos and mentoring more junior staff to develop and operate to their full potential
- Innovative and visionary thinker – comfortable working in a multidisciplinary environment and with a wide range of stakeholders
- Desire to help develop and shape position papers/presentations to drive research investment and shape policy

Desirable Knowledge, Skills and Experience:

- Experience of responding to external accountability requirements, coordinating input from multiple offices
- Experience of producing and reviewing complex high-level reports, guidance or policy documents, or designing training materials
- An excellent understanding of research context and the external funding environment in the UK
- Experience of working with small and medium sized enterprises
- Experience in a customer-facing role