

Candidate Information

Position:	Research Fellow
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	26/113137
Closing Date:	Monday 9 February 2026
Salary:	£41,519 per annum
Anticipated Interview Date:	23 February 2026
Duration:	5 months

JOB PURPOSE:

To be a highly productive, ambitious and collaborative member of EPSRC DICE+ Network feasibility study "Busloads of Value" (<https://dice-networkplus.org/about-us/our-funded-research/>) research project/team assisting in the development of research proposals and the planning and delivery of the research activity specifically to explore circular, digitally enabled business models for the electrification of mid-life bus fleets.

The post is a critical role, and as such, successful applicants will have responsibilities in independent research, planning, day to day project management, collaborations, and outreach.

MAJOR DUTIES:

1. Undertake research under supervision within a specific research project or as a member of a research team.
2. Conduct applied research on digital governance and circular economy mechanisms for battery-powered transport systems.
3. Design and test a minimal viable "battery passport" specification, including data structure, access controls, and update logic.
4. Develop contractable business-model archetypes using the Triple Layer Business Model Canvas (TL-BMC) to support sustainable retrofitting of bus fleets.
5. Perform order-of-magnitude feasibility analyses for energy performance, lifecycle impact, and cost implications of retrofit strategies.
6. Co-create a policy and contracting blueprint with our external partners, supporting evidence-based adoption across UK municipalities.
7. Produce high quality research outputs consistent with project aims and commensurate with career stage. This will include collaborating and co-authoring with PI and project team (as appropriate) on outputs.
8. Engage stakeholders across academia, industry, and government through workshops, briefings, and dissemination activities.
9. Produce academic and practitioner outputs, contribute to deliverables, and support the development of follow-on proposals.
10. Assist grant holder in the preparation of funding proposals and applications to external bodies.

Planning and Organising:

1. Plan own day-to day activity within framework of the agreed research programme.
2. Contribute to the planning of research project, reports and publications etc.
3. Assist PI and project team in attending and organising relevant events.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance, as required, to ensure a safe working environment.

Internal and External Relationships:

1. Liaise on a regular basis with members of the project team.
2. Liaise on a regular basis with project partners.

3. Build contacts with relevant stakeholders to form relationships for future collaboration and project dissemination.

ESSENTIAL CRITERIA:

1. Normally have or be about to obtain a PhD in Sustainable Transport, Industrial Ecology, Circular Economy, Energy Systems, Operations/Industrial Engineering, Management Science, Information Systems, or a closely related field.
(NB 'About to obtain' is normally defined as within 3 months of application date)
2. Demonstrable experience in at least two of the following areas:
 - Life-cycle or techno-economic analysis;
 - Contractual or governance design for data-enabled systems;
 - Digital passport or asset-data modelling;
 - Stakeholder co-design or participatory research;
 - Transport decarbonisation or circular-economy applications.
3. Evidence of high-quality research and publication record commensurate with career stage.
4. Practical problem-solving skills, independence of thought and initiative.
5. Ability to assess and organise resources.
6. Ability to contribute to broader management and administrative processes.
7. Ability to manage multiple workstreams to deadlines and maintain accurate research documentation in line with responsible-innovation and EDI principles.
8. Excellent written and verbal communication skills, including the ability to prepare reports, publications, and technical specifications.
9. Evidence of successful teamwork and cross-disciplinary collaboration.
10. Commitment to continuous professional development.

ADDITIONAL INFORMATION:

Informal enquiries can be directed to: Dr Jay Lin: j.lin@qub.ac.uk