

Job Description

Role Title:	Postdoctoral Research Fellow in Market Design for Citizen-led Flexibility
School / Dept:	Salford Business School
Reference:	MPF3063
Grade:	7
Full or Part time:	Full time, Fixed term 12 months
Hours:	1.0 FTE / 36.25
Reports to:	Project Lead – Salford Business School

Overview

Salford Business School boasts a vibrant international community. We are pioneers in redefining education and its role in shaping the future and world around us. Industry collaborations, knowledge transfer partnerships, research partnerships, international exchanges, student opportunities, outreach activities - these are just some of the ways we connect and work together.

We are looking for a Postdoctoral Research Fellow to contribute to an externally funded project focused on designing, developing, and implementing innovative local flexibility markets for communities and neighbourhoods in the UK and EU. The project emphasizes the role of grid-edge devices like bidirectional electric vehicles, vehicle-to-everything (V2X), and other demand-side potentials. As part of our team, you will develop advanced algorithms, tools, and solutions, applying them to pilot studies across the UK and EU.

Role Detail

To design, develop, and implement innovative local flexibility markets for communities and neighbourhoods within the UK and EU, focusing on smart electric vehicles charging, vehicle-to-grid (V2G), and other consumer-led flexibility potentials

Role Purpose

The Research Fellow will work with and report to the Project Lead.

The post-holder will be required to develop, lead and deliver research projects and build partnerships.

The post-holder will be expected to undertake simulation, data-driven analysis fieldwork, conduct secondary analysis and publish research findings in a variety of outlets both academic and non-academic.

Principal Duties & Responsibilities

- To take a proactive role in developing research and impact driven pilot studies, and provide effective support to the Project Lead in delivering the project objectives.
- To manage research projects and contribute to projects delivered by others in the team as required.
- To manage and undertake primary and secondary data collection and analysis activities as required.
- To develop, build and nurture partnerships with a range of academic, international, community and industry stakeholders.
- To work across disciplines in the development and delivery of projects with internal, external, domestic and international partners.
- To contribute to developing comprehensive reviews of literature as required.
- To contribute to the update of School website in the area of digital, and other publicity materials.
- To present the findings from research activities at events, seminars and conferences where required.
- To publish research findings in high-quality academic and non-academic outputs
- Perform any other duties as may be required from time to time by the Project Lead.
- To assist in the development of the University of Salford's international profile

- Comply with the personal health and safety responsibilities specified in the University Health and Safety policy
- Engage with the University's commitment to put our students first and deliver services which are customer orientated, represent value for money and contribute to the financial and environmental sustainability of the University when undertaking all duties and aspects of the role.
- Promote equality and diversity for students and staff and sustain an inclusive and supportive study and work environment in accordance with University policy;
- This role detail is a guide to the work you will initially be required to undertake. It may be changed from time to time to meet changing circumstances. It does not form part of your Contract of Employment.

Person Specification

The successful candidate should demonstrate the following, which are 'Essential' (E) or 'Desirable' (D), and will be assessed by Application Form (A), Interview (I), Presentation (P), or Test (T), as indicated.

Qualifications

1. A good undergraduate degree (1st or 2:1) (D) (A)
2. A PhD in Economics, Electrical Engineering, Computer Science or a closely related field (E) (A)

Background and Experience

3. Experience of undertaking high quality research in an academic or consultancy environment (E) (A) (I)
4. Experience of undertaking research in developing and deploying local energy and flexibility markets, application of blockchain and smart contracts, sharing economy (E) (A) (I)
5. Experience of undertaking comprehensive (process and/or impact) evaluation studies (E) (A) (I)
6. Experience of working with external research commissioners in the public and/or private sector (E) (A) (I)
7. Experience of securing funds for research/consultancy from external sources (D) (A) (I)
8. Extensive experience of interdisciplinary research (E) (A) (I)

Knowledge

9. Academic concepts and applications of the microeconomic theory (market structures, competition, strategic interactions, bidding, behavioural economy, consumer cooperative and noncooperative behaviour, game theory) plus proficiency in programming (e.g. Python, MATLAB) (E) (A) (I)
10. Strong knowledge of local flexibility markets, policy and market issues relating to local energy communities in the EU and the UK, charging codes and standards for EVs and distributed energy systems (E) (A) (I)

Skills and Competencies

11. An ability to engage in innovative practice ideally within a research and consultancy context, and work on a trans-disciplinary manner. (D) (A) (I)
12. An ability to write academic and non-academic outputs for a variety of audiences in a clear and accessible style (E) (A) (I) (T)
13. An ability to work in a team in an open, sharing manner & to engage in independent working for periods at a time (E) (A) (I)
14. A willingness to engage in international travel as part of the work (E) (A) (I)

15. The ability to verbally present and engage with a variety of audiences in a clear and accessible manner. (E) (A) (I) (P)
16. The ability to establish rapport and partnerships with individuals from a range of social and professional backgrounds (E) (A) (I)
17. Project management skills (E) (A) (I)
18. Capability and willingness to undertake administrative tasks necessary for the effective management of the project, and its research and consultancy activities. (E) (A) (I)

A = Application form, I = Interview, P = Presentation, T = Test

Candidate Guidance

****In order to fully meet the essential criteria candidates must show clear evidence of how they meet the criteria. Simply stating that you have a skill or experience in an area is not sufficient, you must provide a clear example to show how you have met each of the criterion you address**.**