Candidate Information

Position: Research Fellow
School/Department: School of Electronics, Electrical Engineering and Computer Science
Reference: 25/112893
Closing Date: Monday 27 October 2025
Salary: £41,519 per annum
Anticipated Interview Date: Friday 7 November 2025
Duration: 2 years

JOB PURPOSE:

Contribute to our research in the UK Research and Innovation (UKRI) Hub for Quantum Enabled Position, Navigation & Timing – QEPNT Hub (https://qepnt.org/), focusing on the application of such technologies for Autonomous Vehicles, as well as other relevant research activities within our research group, Connected and Cooperative Autonomous Systems.

MAJOR DUTIES:

1. Conduct cutting-edge research in the use of advanced AI Tools and QUB's state-of-the-art Research Autonomous Vehicle platform to collaborate with the QEPNT hub partners to evaluate the potential of Quantum Sensing, Navigation and Timing for Autonomous Vehicles. This will entail both developing digital twins and physical proof of concept development, as well as field tests.
2. Publish and promote research results in top international journals and conferences that are actively relevant to the field. This will involve collaborating with our team of established academics, early-career researchers, research engineers, and QEPNT hob academic and industry collaborators. The appointee will be required to undertake some national and international travel to participate in relevant project meetings and attend conferences.
3. In consultation with the project team, promote research milestones and outputs at national and international conferences and through social media.
4. Contribute to the preparation of funding proposals and applications to external bodies.
5. Carry out occasional educational supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
6. Undertake supplementary duties relevant to the success of the project, including administrative duties and additional training and development activities as required,
7. Plan own day-to-day activity within the framework of the agreed research programme.
8. Contribute to the planning of research projects, reports, publications, etc.
9. Assist PI and project team in organising relevant events.
10. Liaise regularly with project partners.

ESSENTIAL CRITERIA:

1. Have, or be about to obtain a PhD with relevant research in one of the following areas: Artificial Intelligence, Quantum Technologies and Autonomous Vehicles.
2. Recent relevant experience to include:
   - Software development for real-world applications or simulation
   - Demonstrable research background in one of the following areas: AI, Quantum Technologies and Autonomous Vehicles.
3. Evidence of publication in top international journals and conferences.
4. Ability to contribute to broader management and administrative processes.
5. Contribute to the School's outreach programme by links with community groups etc
6. Demonstrate practical problem-solving skills, independence of thought and initiative.
7. Proven ability to communicate complex information effectively in oral and written formats.
8. Proven ability to build relationships/develop internal and external networks.

9. Ability and desire to work in a team with minimal supervision.

DESIRABLE CRITERIA:

1. Experience of development of research proposals.
2. Experience in the management and administration of research projects.