

**QUB-  
Mechanical and Aerospace Engineering  
2019-2020**

<b>PhD Positions available in the Sir William Wright Technology Centre for 2019-2020</b>	
<b>Organisation</b>	Queen's University Belfast
<b>Industrial Partner</b>	Wrightbus
<b>Qualification</b>	PhD
<b>Funding Amount</b>	Fee/studentship funding may be available for UK nationals or EU nationals who have lived in the UK for over 3 years (EU nationals not resident in the UK are only eligible for fees element). Further information regarding DfE/RCUK studentship eligibility criteria can be found at: <a href="http://www.qub.ac.uk/graduate-school/funding-scholarships/uk-eu-prospective-research/">http://www.qub.ac.uk/graduate-school/funding-scholarships/uk-eu-prospective-research/</a> . Successful candidates for this post eligible for DfE/RCUK funding may also be eligible for an industrial top-up for this project of £5,000 per annum from the Industrial sponsor.
<b>Duration</b>	3 years
<b>Anticipated Start Date</b>	October 2019
<p>The Sir William Wright Technology Centre (WTECH) was formally launched in 2017, with a focus on the developing state-of-the-art technologies to support the next generation public transport sector. Starting in October 2019-2020, we have opportunities available for PhD candidates to work closely with a world leading bus manufacturer (Wrightbus) in a range of research areas, including:</p> <ol style="list-style-type: none"> <li>1. Vehicle architectures for next generation battery electric buses;</li> <li>2. Vehicle health monitoring technologies;</li> <li>3. Advanced fleet management and optimisation for electric bus vehicles;</li> <li>4. Advanced driver assistance technologies for the public buses;</li> <li>5. Cybersecurity technologies for vehicles;</li> <li>6. Bus vehicle crashworthiness.</li> </ol> <p>Successful candidates will be working closely with an existing team of Postgraduate Students and Postdoctoral Research Fellows housed in the dedicated Sir William Wright Technology Centre facility at Queen's University Belfast, with the opportunity to become closely involved with vehicle testing and development with our industrial partner. Alongside academic supervisors, each of our PhD students will have dedicated industrial supervision to ensure that our researchers get full exposure to real industrial challenges and understanding of how to translate fundamental research into real industrial impact.</p> <p>Informal enquiries about PhD opportunities may be made in the first instance to Dr Juliana Early (School of Mechanical and Aerospace Engineering, <a href="mailto:j.early@qub.ac.uk">j.early@qub.ac.uk</a>).</p> <p>It is anticipated that the successful candidates will start in October 2019.</p>	
<p><b>Key skills required for the post:</b></p> <p>A minimum degree of 2:1 (or equivalent) in one of the following areas is required: Engineering, Science, IT, Mathematics or a closely related subject area. Candidates with other primary degree areas may be considered if they can demonstrate a significant level of mathematics and/or data analysis in their primary degree area.</p> <p>It would be desirable to have some understanding and knowledge in the areas of automotive sector.</p> <p>Good computer skills are desirable as the majority of projects will involve computer modelling, simulations and analysis of results.</p>	

**Key transferable skills that will be developed during the PhD:**

The key transferable skills that will be developed during this PhD project will be in the areas of:

- Mathematical modelling and simulation
- Industrial engagement and technology transfer
- Academic and industrial publication/presentation skills
- Possibly Experimental Testing and Analysis

<b>Enquiries</b>	Informal enquiries about PhD positions in the WTECH Centre can be made in the first instance to Dr Juliana Early ( <a href="mailto:j.early@qub.ac.uk">j.early@qub.ac.uk</a> , School of Mechanical and Aerospace Engineering)
<b>Top up available for this project?</b>	Yes – Sir William Wright Technology Centre linked projects
<b>Linked to DTC?</b>	No