**DEPARTMENT OF ELECTRONIC AND ELECTRICAL**

**ENGINEERING**

LONDON’S GLOBAL UNIVERSITY

EEE-IXN

The Electronic and Electrical Engineering Industry eXchange Network

# Project Brief Form

This form should be used to propose a project for the EEE Industry eXchange Network (IXN). The form should be completed in conjunction with the EEE IXN information sheet which provides some context for the type of project.  
Any questions can be directed to:

Research Project Module Lead (Undergraduate projects): Dr Oliver Hadeler ([o.hadeler@ucl.ac.uk](mailto:o.hadeler@ucl.ac.uk))  
MSc Director (MSc projects): Prof. Miguel Rio ([miguel.rio@ucl.ac.uk](mailto:miguel.rio@ucl.ac.uk))  
Strategic Alliance Director: Dr Robert Thompson ([robert.j.thompson@ucl.ac.uk](mailto:robert.j.thompson@ucl.ac.uk))

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| --- | --- |
| **Contact and Organisation Details** | |
| **Name of Organisation** |  |
| **Address of Organisation** |  |
| **Overview of Organisation** |  |
| **Lead Contact** (e.g. academic liaison officer) | **Name:**  **Job Title:**  **Email:**  **Phone Number:** |
| **Technical Mentor** (i.e. technical member of staff who will have regular meetings with student(s) and lead the technical mentorship) | **Name:**  **Job Title:**  **Email:**  **Phone Number:** |
| **Project Details** | |
| **Project Title** |  |
| **Suggested cohort**  Please suggest which cohort of students you think the project is most suited to. Stating if you would like to propose the project as an individual, team or themed project.  *“Students are expected to undertake work that has elements of originality, though there is no expectation to make new contributions to knowledge. Undergraduate projects will focus more on the application of knowledge and skills, whereas MSc projects will have a greater element of exploration.”* | Undergraduate 3rd years  (Themed projects for 2 or 3 students, each student takes an independent approach to the project)  Undergraduate 3rd years  (Individual single student project)  Undergraduate 4th years  (Team project for groups of typically 4 or 5 students)  MSc project  (Individual project)  MSc project  (Themed project – each student undertakes an individual elements of a larger challenge)  Where you have selected a team or themed project please state how many students you believe could be accommodated: |
| **Project Description**  Please summarise the project background and the problem to be solved. Please list the key required functionalities you expect to be exhibited in any solution.  Very open ended projects tend to attract less interest, while a project should not be overly prescriptive it should provide some suggestion of the scope and direction of work. | Example: Project to build a platform that … |
| **Technical areas of work**  (Please select which technical areas the project aligns with. Select all core technical areas that apply, do not select technical areas that are only tangentially or minimally relevant.) | Semiconductor devices   Quantum Devices   Optoelectronic and laser Devices   Solar Photovoltaic devices   Sensors systems (inc. wearables)   Computer vision systems   Radar systems and applications   RF and THz systems   Optical networks and photonic systems   Wireless networks and systems   Signal Processing   TCP/IP networks and Internet protocols   Application of Artificial Intelligence (AI) |
| **Application areas**  (Please select which industry verticals or challenges this project is related to. Select all core application areas that apply.  This is a non-exhaustive list and we appreciate our industry partners’ input on other relevant application areas.) | Smart and Immersive environments   Robotics & Autonomous Systems   Connected and Autonomous Vehicles   Health and Wellbeing   Sustainability and Green technologies   Secure and Resilient technologies   Communication networks incl. 5G   *Other – please state* |
| **Expertise/Skills required**  i.e. any particular skills that would be essential/desirable such as a programming language to be able to utilise an existing library, advanced knowledge of a specific technology, or an interest in a specific application. |  |
| **Resource requirements**  i.e. any particular data sets/samples, hardware, analytical facilities or other resources that the student will be expected to have access to.  Please state if you as the industry partner will provide access and any considerations we (Electronic and Electrical Engineering Department) or the student must make for this access. |  |