Job Description

Job title:	**Research Engineer - KTP Associate**
Department/School:	**Chemistry & Electronic and Electrical Engineering**
Salary:	**£35,000 to £45,000 p/a depending on qualifications and experience, plus an additional £5,000 personal training and development budget.** **The post is fixed term for 30 months**
Location:	**This role will be based at Unit 3a Marine View Office Park, 45 Martingale Way, Portishead, Bristol, BS20 7AW**

Job purpose

To develop an innovative subsea cable integrity monitoring product that will extend the lifetime and performance of critical underwater cables. This KTP seeks to optimise corrosion prevention and enhance control algorithms to reduce the environmental burden of installing new cables and allow Viper Innovations to diversify into the renewables sector.

This is a 30-month Knowledge Transfer Partnership (KTP) between Viper Innovations Ltd, the Department of Chemistry and the Department of Electronic and Electrical Engineering at the University of Bath.

Source and nature of management provided

The KTP project is delivered by the KTP Associate and is managed through a Local Management Committee (LMC). This is chaired by the senior company executive and comprises the Company and Academic leaders/supervisors and a Knowledge Transfer (KT) Adviser (Innovate UK representative) and meets every 4 months. Monthly progress meetings are held with the Company and Academic Supervisors. Day-to-day management will be organised by the Company's Supervisor and supported by the academic supervisors.

Staff management responsibility

There is no direct management responsibility. Limited supervision of technical staff might be envisaged at specific times, if justified by the project's operational requirements.

Special conditions

The Associate must be able to travel as required, between the University of Bath and company premises, to attend KTP residential schools and any meeting in the UK or overseas as is necessary for the successful completion of the project.

Main duties and responsibilities

1	**Teamwork and motivation.** It will be necessary to work effectively as part of a team at the company and to liaise with the knowledge base at Bath.

2	**Initiative and problem-solving.** The main objectives of the project and the desired timeline are set but how they will be achieved will be dictated by the evolution of the research. The Associate must therefore be self-motivated to complete the tasks and manage the project accordingly.
3	**Liaison and Networking.** The project relies on a good dissemination of results but also the pro-active search for the right information, sometimes outside the applicant's direct skill set, and sometimes to show external customers the results of the project and how it matches their objectives. Timely and relevant exchanges of information are primordial.
4	**Communication.** The Associate is expected to write monthly progress reports and prepare executive summaries and other reports for the Local Management Committee (LMC) meetings. Within the limits of commercial confidentiality, the Associate will have the opportunity to deliver papers at conferences and will be expected to co-author articles in peer-reviewed international publications. Excellent written and oral communication skills are therefore important.
5	The Associate will be an employee of the University of Bath and based at the company for most of the time.

KTP Associate and University of Bath employees are expected to:

• Undertake such other duties within the scope of the KTP as may be requested by their Supervisors and Line Managers.

• Follow the University and the Business Partner's policies and working practices at all times to ensure that no disclosure of confidential information results from their actions.

• Ensure they are aware of and abide by all relevant University / Business Partner / KTP regulations and policies relevant to their role.

• Be supportive of colleagues and always operating in a collegiate manner.

• Lead and deliver an innovative project, bringing the University academics and the Business Partner together.

• Embed new knowledge in both the Business Partner and the University.

• Able to meet all visa application costs, if applicable.

• Able to relocate to Portishead (support from our relocation scheme may be available).

• Able to attend mandatory Innovate UK residential training course at Ashorne Hill in Leamington Spa (2 x 1-week modules).

N.B. The above list is not exhaustive.

Person Specification

Criteria	Essential	Desirable
Qualifications		
BEng/Meng or equivalent in Electronic Engineering or a related discipline	√	
A PhD degree relevant to Electronic Material Science, or equivalent significant relevant R&D experience within industry and professional qualification		√
Experience/Knowledge		
Experience and/or qualification in Electrochemistry;	√	
Experience of experimentation and/or experimental methods	√	
Experience of working in multi-disciplinary project teams to agreed project plans and specifications		√
Project management experience or demonstrated self-motivation in industry and/or research settings	√	
Demonstrated awareness of latest developments in the field of research and in research design	√	
Skills		
Ability to organise and prioritise own workload to meet required deadlines	√	
Ability to write research reports and to effectively disseminate outcomes	√	
Excellent written and verbal communication skills (proven experience of writing reports, giving presentations, interacting with customers or other third parties communicating complex technical information to stakeholders at all levels)	√	
Demonstrated high-level investigation, analysis and research skills with excellent problem solving skills	√	
Ability to manage time critical projects		√
Ability to conceptualise and understand the commercial imperative for the project	√	
Attributes		
Self-motivated: ability to “take ownership” of the project and bring it to successful completion	√	
Awareness of the principles of KTP and a willingness to embrace them.	√	