

## Job Description

<b>Job title:</b>	<b>Research Engineer - KTP Associate</b>
<b>Department/School:</b>	<b>Chemistry &amp; Electronic and Electrical</b>
<b>Salary:</b>	<b>£ 35,000 to £45,000 p/a depending on qualifications and experience, plus an additional yearly £2,000 personal training and development budget. The post is fixed term for 24 months</b>
<b>Location:</b>	<b>This role is be based at Unit 3a Marine View Office Park, 45 Martingale Way, Portishead, Bristol, BS20 7AW. 5 days a week in the office / lab.</b>
<b>Job purpose</b>	
<p>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.</p> <p>This is a 24-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.</p> <p>This is a full-time, in-person role working on-site at Viper Innovations located in Portishead.</p>	
<b>Source and nature of management provided</b>	
<p>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 KT Adviser (Innovate UK representative) and meets every 4 months.</p> <p>Monthly progress meetings are held with the KTP Associate the Company and Academic Supervisors.</p> <p>Day-to-day management will be organised by the Company's Supervisor and supported by the Academic supervisors.</p>	
<b>Special conditions</b>	
<p>The Associate must be able to travel as required, to attend 2 KTP residential schools and any meeting in the UK or overseas as is necessary for the successful completion of the project.</p> <p>The Associate must be able to relocate to where the Company is located and be able to meet all visa application costs, if applicable.</p>	
<b>Main duties and responsibilities</b>	
<b>1</b>	<b>Teamwork and motivation.</b> It will be necessary to work both independently and effectively as part of a team at the company and to liaise with the knowledge base at Bath.

2	<b>Initiative and problem-solving.</b> 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. You must therefore be self-motivated to complete the tasks and manage the project accordingly.
3	<b>Liaison and Networking.</b> The project relies on a good dissemination of results but also the proactive 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	<b>Communication.</b> You are expected to communicate and present research results in an organised manner. You are expected to prepare and write monthly progress reports, executive summaries and other reports for the Local Management Committee (LMC) meetings. Within the limits of commercial confidentiality, you 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	<b>Supervision.</b> There is no direct management responsibility. However at specific times in the project, you might be expected to supervise technical staff for completion of specific tasks, either in person or remotely, if justified by the project's operational requirements.
6	You must be aware of and abide by all relevant University / Business Partner / KTP regulations and guidance relevant to this role and follow all the University and the Business Partner's policies and working practices and procedures at all times to ensure that no disclosure of confidential information results from their actions.
From time to time you will be required to undertake other duties of a similar nature as reasonably required by the supervisors.	



### Person Specification

Criteria	Essential	Desirable
<b>Qualifications</b>		
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		√
<b>Experience/Knowledge</b>		
Knowledge in at least one programming language, preferably Python.	√	
Basic knowledge of, or at least willingness to learn 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	√	
<b>Skills</b>		
<b>Time Management &amp; Planning:</b> Strong ability to manage time effectively by organising and prioritising workload and tasks, meet tight project deadlines, and work efficiently under pressure;	√	
<b>Analysis, Research &amp; Problem-Solving:</b> Demonstrated capability to undertake independent research, solving complex problems with initiative and resourcefulness. Excellent at analysing and investigating issues to find effective solutions;	√	
<b>Collaboration/Teamwork &amp; Independence:</b> Proven ability to work well both independently and as part of a team, balancing personal and collective responsibilities. Enthusiastic about contributing to team projects and academic collaborations. Proven capability to manage competing demands responsibly, with minimal supervision;	√	
<b>Report Writing &amp; Dissemination:</b> Skilled in writing research reports and presenting outcomes to stakeholders at all levels, communicating complex technical information clearly and concisely;	√	
<b>Communication:</b> Effective written and verbal communication skills, including the ability to write research reports, present findings, and interact with customers or third parties;	√	
<b>Proactive Learning &amp; Professional Development:</b> Committed to continuous learning and self-improvement, with a proactive approach to	√	

<p>professional development. Highly self-motivated with a strong desire to learn new technologies, methodologies, and concepts as required by evolving projects;</p> <p><b>Commercial Awareness:</b> Ability to conceptualise and understand the commercial imperative for the project.</p>	<p>√</p>	
<b>Attributes</b>		
<p>Self-motivated: ability to “take ownership” of the project and bring it to successful completion;</p>	<p>√</p>	
<p>Awareness of the principles of KTP and a willingness to embrace them;</p>	<p>√</p>	
<p>Be a team-player, supportive of colleagues and always operating in a collegiate manner.</p>	<p>√</p>	