

## JOB DESCRIPTION

Vacancy Ref: A2654

<b>Job Title:</b>	Senior Research Associate Autonomous Systems	<b>Present Grade:</b>	7
<b>Department/College:</b>	School of Computing and Communications		
<b>Directly responsible to:</b>	Prof Plamen Angelov		
<b>Supervisory responsibility for:</b>	None		
<b>Other contacts</b>			
<b>Internal:</b>			
Other team members of the Collaborative Technology project; Staff and Students at the University			
<b>External:</b>			
Collaborators/partners working on the project (QinetiQ, Nuvia, Bristol Maritime Robotics Ltd, Fortis Mechanical Design Ltd.			
<b>Major Duties:</b>			
<ol style="list-style-type: none"> <li>1. Undertaking research necessary to achieve Lancaster University's aims within the InnovateUK - funded project "Collaborative Technology Hardened for Underwater and Littoral Hazardous Environments". More specifically, to develop situation awareness using tactile and passive EO sensors, navigation using sonar SLAM and decision making with elements of autonomy. These to be applied to mobile robots that crawl on the floor of a confined underwater hazardous environment.</li> <li>2. The candidate will be experienced in working with ROS for simulations and willing to learn object recognition and machine vision and apply these for improving the robot situation awareness.</li> <li>3. Working effectively in a cross-disciplinary team to achieve the above goal.</li> <li>4. Leading the collaboration, planning, development, and publication of our work within the Collaborative Technology project.</li> <li>5. Participating in all project meetings; preparing progress reports, presenting talks, posters and reports to disseminate the results of the research.</li> <li>6. Preparing progress reports for project meetings describing the results of the project.</li> <li>7. Participating in national and international conferences and workshops to present the results of the project to a wider audience and to learn about current advances in the field.</li> <li>8. Preparing conference and journal papers for publication of project findings.</li> <li>9. Participating in writing new research proposals that build on the expertise developed in this project.</li> <li>10. Any other duties appropriate to the grade, as directed by the Principal Investigator or his representative.</li> </ol>			