

Job Description

Core job information

Job Title	Engineer		
Working hours per week	Full time: 37.5	Direct Reports	None
Reports to (job title)	Operations Manager - North America	Current location	Friday Harbor, WA

Job purpose

Engineer to support the development of the Coastal Acoustic Buoy (CAB: <http://www.smruconsulting.com/products-tools/cab/>) system for use in mitigation and consulting work throughout the SMRU Consulting group of companies. The job holder must have a relevant bachelor's degree, relevant experience and the ability to work both independently and within a small team. The role will be located in Friday Harbor, WA. They will work closely with personnel based at the University of St Andrews, Scotland. The key part of this role is to assist in the development, building, and commercialization of the CAB system, especially in terms of software development and hardware integration. The Engineer should support CAB development and commercialization, under the guidance of the Operations Manager and as part of a small team. The Engineer will also be required to help field test the CAB system and help provide the CAB system, both locally and internationally. This will require flexibility to travel as needed both locally and internationally.

Main Duties and Responsibilities of the Role

- Design, implement and test robust software solutions for Coastal Acoustic Buoys.
- Help integrate and test hardware for CAB.
- Harden current product code against possible failures and bugs.
- Help develop CAB for offshore wind mitigation as part of a three-year DOE contract (https://www.nationalwind.org/wp-content/uploads/2020/01/4-SMRU_CABOW.pdf).
- Work closely and collaboratively with cross functional teams to determine requirements, prioritize development efforts and recommend solutions.
- Help set strategic direction on technology development.
- Evaluate, develop and test CAB options for radio/other communication.
- Provide feedback to colleagues at the University of St. Andrews partners on CAB software interface and help develop these software interfaces.
- Support colleagues in the delivery of client projects by providing expert technical knowledge and practical expertise.
- Ability to work productively in a small but growing team.

It is expected that this job description be read in conjunction with the relevant person specification and competency framework.

This job description sets out the duties of the post at the time it was drawn up. Such duties may vary from time to time without changing the general character of the duties or levels of responsibilities and the tasks identified act as a guide only.

You will be required to self-manage and to prioritize the workload in order to enable you to meet work deadlines as required.

Person Specification

This details the attributes e.g. skills, knowledge/qualifications and competencies which are required in order to undertake the full remit of this post.

Knowledge, Skills & Experience			
Attributes	Essential Requirements	Desirable	Means of Assessment
Education & Qualifications (technical, professional, academic qualifications and training required)	<ul style="list-style-type: none"> ✓ Educated to bachelor's degree level in an applicable subject (e.g. Mechatronic, Mechanical, Software, or Electrical Engineering, or related field) 	<ul style="list-style-type: none"> ✓ Degree or background in engineering ✓ Project management skill sets 	Application and Evidence
Relevant Experience (examples of specific experience and knowledge sought)	<ul style="list-style-type: none"> ✓ Problem solving skills with a "can do" mind-set and hands on approach ✓ Ability to write well-structured code in C, C++, Java, and/or Python ✓ Software/hardware integration ✓ Ability to learn new software to high level of proficiency ✓ Experience in a variety of operating environments (embedded Linux, embedded processors/controllers, MS Windows) 	<ul style="list-style-type: none"> ✓ Design in Solidworks ✓ Project management experience ✓ Scientific analysis skills, especially with acoustic data ✓ Working within a commercial and research environment ✓ Experience of working independently ✓ Ability to maintain and repair to oceanographic sensors 	Application and Interview
Competencies & Skills (E.g. effective communication skills, initiative, flexibility, leadership etc.)	See below		Application and interview
Customer engagement: <ul style="list-style-type: none"> ◆ Shows positive commitment to quality and customer care ◆ Understands the needs of the customer to cultivate good working practices 	<ul style="list-style-type: none"> ◆ Understands the importance of providing a quality service to the customer ◆ Promotes a positive image of the skills and capabilities of the company to external parties ◆ Displays flexibility and is approachable and confident in understanding and meeting customer requirements 		
Managing self: <ul style="list-style-type: none"> ◆ Effective leadership ◆ Self-awareness 	<ul style="list-style-type: none"> ◆ Takes personal responsibility for actions and outcomes ◆ Critiques own approach and learns from mistakes and ensures they are not repeated ◆ Able to work independently and liaise effectively with satellite offices 		

Competencies & Skills/continued

(E.g. effective communication skills, initiative, flexibility, leadership etc.)

<p>Planning and delivery of work</p> <ul style="list-style-type: none"> ◆ Effective time management 	<ul style="list-style-type: none"> ◆ Ability to set strategic direction but also complete detail-oriented tasks ◆ Prioritizes project work to meet deadlines and deliver objectives ◆ Uses meetings in a timely and effective way ◆ Recognizes when to make decisions and tackle problems on own and when to involve others 		
<p>Working with others:</p> <ul style="list-style-type: none"> ◆ Actively contributes in a positive manner to all teams they are members of 	<ul style="list-style-type: none"> ◆ Understands their role in the team, shares information with colleagues 		
<p>Communicating with others:</p> <ul style="list-style-type: none"> ◆ Listening skills ◆ Communicate ideas and information clearly 	<ul style="list-style-type: none"> ◆ Well-developed written communication skills ◆ Active listener ◆ Speaks clearly and concisely, checks understanding and seeks clarity where required 		
<p>Data management and administration</p>	<ul style="list-style-type: none"> ◆ Deals with IP, data and information competently and professionally 		
<p>Scientific/ Technical Hardware/software</p>	<ul style="list-style-type: none"> ◆ Ability to document code appropriately, version control, and share with colleagues ◆ Ability to design hardware components and version control 		
<p>Attitude & disposition</p>	<p>Flexible; motivated</p>		<p>Application and interview</p>
<p>Essential Criteria:</p>	<p>Requirements without which a candidate would be unable to understand the full remit of the role. Applicants will normally be rejected at the short-listing stage.</p>		
<p>Desirable Criteria:</p>	<p>Requirements which would be useful for the candidate to have. When short listing, these criteria will be considered when more than one applicant meets the essential requirements</p>		