

Job Description

Core job information

Job Title	Field 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

Field 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, as well as undertake scientific research tasks in support of our consulting work. The Field Engineer should support CAB development and commercialization, under the guidance of the Operations Manager and as part of a small team. The Field Engineer will also be required to 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

- Take over day-to-day development of CAB from current Field Engineer to enable rapid progress.
- Help develop CAB for offshore wind mitigation as part of a three-year Department of Energy contract (https://www.nationalwind.org/wp-content/uploads/2020/01/4-SMRU_CABOW.pdf).
- Evaluate and test CAB options for radio/other communication.
- Help develop and test compressed audio streaming from CAB units.
- Lead the performance evaluation of CAB units under different deployment scenarios in order to develop best practices for maximizing data quality. This will involve testing of hydrophone/CAB deployment/retrieval and mooring options.
- Test data storage options and reliability on CAB units.
- Develop documentation on CAB use, maintenance and construction.
- Work with software developers at the University of St. Andrews to identify problems in CAB software interface and devise solutions.
- Lead commercial CAB projects in planning, logistics, client training, field support and data collection/analysis.
- Provide assistance in report writing including QA for formatting, spelling, grammar, etc.
- Work proactively 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. Oceanography, Engineering, or related field) 	<ul style="list-style-type: none"> ✓ Background in science 	Application and Evidence
Relevant Experience (examples of specific experience and knowledge sought)	<ul style="list-style-type: none"> ✓ Problem solving skills ✓ Proficient in using core IT tools such as MS Office, specifically Excel, Word, and Outlook ✓ Ability to test, develop, deploy and maintain oceanographic hardware/software in a safe and efficient manner ✓ Software/hardware integration ✓ Project management experience ✓ Ability to learn new software 	<ul style="list-style-type: none"> ✓ Coding skills ✓ Scientific analysis skills ✓ Working within a commercial and research environment ✓ Business development skills ✓ Basic electronics skills (soldering, connectivity testing, etc.) ✓ Basic acoustic analyses in Matlab or other languages 	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 ◆ Promotes a positive image of the company ◆ 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"> ◆ 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"> ◆ 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</p> <p>Data Manipulation</p>	<ul style="list-style-type: none"> ◆ Ability to undertake data manipulation and analytical tasks using computer software programs ◆ Competent at editing, checking, querying and visualization of data in Matlab or equivalent. 		
<p>Attitude & disposition</p>	<p>Flexible; motivated</p>		<p>Application and interview</p>
<p>Essential Criteria: 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: 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>			