


Job Title	Technology Lead/System Architect			
Department	Planning and Environment			
Job Title of Line Manager	Commercial Manager			
Direct Reports – Job Titles	none			
Location	Saratoga Springs, NY, Seattle, WA, Golden, CO or Remote, depending on candidate qualifications			
Hours of Work	40 Hours Per Week			
Key Contacts	Commercial Manager – Renewables, Wildlife Technology, Head of Wildlife Technology			
Grade	6			
 Behavioural Competencies				
Integrity & Respect Honest Open Communicative Consistent Fair	Leadership & Accountability Focused Driven Determined Strategic Responsible	Teamwork & Collaboration Supportive Approachable Trusting Effective Communicative	Expertise, Innovation & Ambition Knowledgeable Pioneering Passionate Championing Improvers	Client Commitment Proactive Listeners Progressive Straightforward Responsive
Budgetary Responsibility (if any)	Very small			

Purpose of Role

The main purpose of the role is to develop and build new wildlife monitoring tools through the assembly and integration of (mainly) off-the-shelf sensor hardware into new sensor packages via custom-built software. The purpose of these custom-built tools is to detect, track, and monitor wildlife and ultimately to reduce and/or quantify the impacts of renewable energy to wildlife.

	<h3>Our Team</h3>
	<p>As a company, our vision is to create a world powered by renewable energy. Through this role, you will work with the Wildlife Technology group and other technical groups withing Natural Power on a diverse range of interesting and challenging projects using state-of-the-art tools and methodologies to develop innovative technology-based solutions for our renewable energy clients.</p>
	<h3>Main Tasks & Responsibilities</h3>
	<ul style="list-style-type: none"> • Design and build wildlife detection systems for deployment on renewable energy projects • Specify and source appropriate hardware and software components • Create technical implementation plans to build and deploy systems • Assemble and test systems according to written test plans • Install systems at remote locations and often under challenging field conditions • Remotely monitor systems for the purposes of troubleshooting, system health monitoring, and reporting
	<h3>General Responsibilities</h3>
	<p>Health & Safety: All employees are required to adhere to Health & Safety Regulations and ensure best practice is met by both themselves and by their colleagues</p> <p>Quality: All employees are expected to work within the systems, processes and procedures outlined within the department and / or company handbooks or software platforms or training manuals</p> <p>Flexibility: A reasonable degree of flexibility is required from all employees to meet the needs of the role, the department and the wider company</p>

PERSON PROFILE

Area	Essential Criteria	Desirable Criteria
Education & Qualifications	<ul style="list-style-type: none"> Undergraduate or post-graduate degree in engineering/computer science/computer programming/system architecture/technology development/remote system management. 	
Specialist Knowledge and Skills	<ul style="list-style-type: none"> Show initiative to provide solutions and innovative ideas Expertise in several, but not all, of the following: Linux, DNP3, SSH, SQL database or similar, MQTT, XML, HTTP, compilers, Perl, Python, JavaScript, .net core, entity framework, c#, postgres, Azure Efficient management of large (multiple TB) data sets to facilitate retrieval and analysis of data Ability to maintain a high level of quality while working under pressure Flexible approach to be able to manage tasks concurrently, and to be handle short order pieces of work Self-motivated, organized and confident attitude to work with the ability to work effectively as part of a team 	<ul style="list-style-type: none"> SCADA expertise Cybersecurity expertise
Relevant experience	<ul style="list-style-type: none"> At least 4 years' experience in a technology development and implementation role Experience in design and field deployment of remotely monitored sensor systems; ideally focused on Wildlife monitoring Experience with remote communication hardware, software and services-modems, cell communications, satcom, radio, large area wifi, range boosting antenna, SSH, and similar 	<ul style="list-style-type: none"> Experience with Wildlife detection sensors (tag sensors such as VHF and GPS telemetry, acoustic sensors both audible and ultrasound, visual sensors such as visible, IR and thermal spectrum cameras) Experience with Off grid power systems – solar panels, batteries, charge controllers, and similar

<p>Any additional requirements</p>	<ul style="list-style-type: none"> • Regularly work outside of typical business hours in order to monitor and troubleshoot and restore systems • Ability to pass client- mandated background checks to allow access to electrical grid and communications infrastructure. • Ability to work in physically demanding conditions, including turbine climbing and working on top of a wind turbine nacelle (>250 feet above ground level). Must be able to secure and maintain the requisite tower climbing certification such as the entry level courses offered by ENSA. http://www.ensa-northamerica.com/courses/wind-energy-training-courses/ • Ability to travel periodically (estimated 10%-20%) to remote client sites throughout the US and Canada to complete system installations or to troubleshoot/repair systems. 	
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Verified by Human Resources	Date: 14.04.2021	Person: K.Innes
Evaluated by Human Resources	Date:	Person:
Approved by Line Manager	Date:	Person:
Signed by Postholder	Date:	Signature: