

Person Specification

POST: Mechanical Design Engineer		
DEPARTMENT: Engineering		
Competencies	Essential	Desirable
Qualifications	Degree or HND in Mechanical Engineering or similar	
Knowledge	<p>Broad knowledge of mechanical systems and mechanisms</p> <p>Confident in the use of standard structural calculations</p>	<p>Marine corrosion and design for marine subsea applications</p> <p>Understanding of electric DC motor design</p> <p>Application of heat transfer theory to the cooling of electronics</p> <p>Understanding of Engineering static and dynamic sealing methodologies</p> <p>Understanding of machining processes</p> <p>Understanding of hydraulic components, circuits and schematics</p>
Experience	<p>Advanced user of PTC Creo 3.0 or 4.0 for 3D Mechanical designs</p> <p>Creation of fully toleranced mechanical detail drawings and general arrangement drawings to ISO standards using 3D CAD</p> <p>Use of Finite Element Analysis structural simulation as a concurrent design verification tool</p> <p>Welded fabrication design</p> <p>Engineering Change Management</p>	<p>Proficiency in the use of AutoDesk Inventor (2016 desirable) for creating 3D Mechanical designs and drawings</p> <p>Use of PTC Creo Piping and Cabling extension</p> <p>Application of Geometric Tolerancing in Engineering drawings</p> <p>Design of ROVs or other marine/underwater equipment</p> <p>Design of hydraulic components and circuits</p> <p>Use of Product Data Management systems</p>
Skills and Aptitudes	Attention to detail	
Personal Qualities	<p>Good communication skills</p> <p>High level of accuracy</p> <p>Integrity</p> <p>Teamwork and collaboration</p> <p>Flexible</p> <p>Proactive</p>	