

Hands-on Systems and Controls Consultant **Job Description**

Summary

The role of Systems and Controls technology assurance consultant requires a strong technical aptitude and experience working with industrial technical systems. Qualified personnel will have experience in one or more of the following; rig control systems, training and experience in military control systems diagnostics and repair, marine control systems diagnostics and repair, or industrial control systems architecture, diagnostics and repair.

Prior to being deployed on rigs, the WEST S&C consultant is trained in WEST technical audit standards and technique, quality and HSE processes and procedures as well as any deployment-specific requirements.

All S&C consultants are paced through an internal practical training program working with senior consultants both offshore and onshore at the WEST headquarters in various support roles.

General Skills

The successful candidate will have skills in several of the following areas.

Software – Understanding of major software packages such as Microsoft Office, Project, Visio, Excel. Understanding of SQL databases. Comfortable with products such as Siemens Step 7, Microsoft Visual Basic, Wonderware OPI, RSLinx, RSLogix, VersionWorks, data-loggers, anti-virus, protocol analyzers, MRO systems such as MAXIMO, AMOS, STAR, SCM.

Hardware – PLCs, control networks, Ethernet networks, HMIs, GE, A/B, Omron, SBCs, switch gear, fiber termination, copper termination, cable specification, RTDs, encoders, transducers, Prox switches, I/O devices, vibration sensors.

Rig Systems - Amphion, NOV, Kongsberg, L-3, Hydril, Hydralift, ABB, Rolls Royce, Flowtec, Stewart and Stevenson, Wartsilla, General Electric, Shaffer, Cameron, Cyberbase.

Equipment - Oscilloscopes, optical time domain reflectometers (OTDR), network troubleshooting and certification devices, multi-meters, network analyzers.

Security – An understanding of systems and network security and security risk mitigation. Specialty training on security topics including security architecture, risk audit, IT general controls. All S&C staff are provided alert notification and training from WEST relative to security threat findings and mitigation.

Specialized skills - Fiber optic testing, fiber termination and splicing, fiber installation. Copper data cable testing, copper termination, testing, certification

Strong Writing Skills – An S&C consultant will be required to have strong written skills and be able to report with WORD, Excel, Adobe and Project.

Technical Skills – Ability to read and understand electrical drawings, logic drawings, cause and effect documentation,

Education and/or Experience

S&C consultants typically have advanced on-the-job or formal engineering training. Applicable profiles include electrical engineering, aviation systems and computer science.

Although a good depth of experience in offshore rig work is desirable, candidates with the above skills from ex-navy positions, from previous technology support roles with OEM vendors, or academic experience in the specialty area will be considered.

Typical S&C consultants have at least 5-6 plus years in PLC, network experience and 4-5 years of experience in mainstream rig systems such as NOV Amphion, or Cyberbase, or V-ICIS.

Other Requirements

Certifications - Offshore GOM, offshore North Sea, medically fit, background and drug tested. Vendor certification for areas of specialty.

Demonstrated Understanding Certification Societies/Enforcement- MODU, ABS, DNV, MMS, ISM, IMO, USCG, NTL

Ability to Deploy for Extended Periods - The nature of our work may require deployment to the farthest corners of the world including potentially unfriendly areas such as Africa, South America and the Middle East. Offshore activity may require 30 or more days offshore or on tows between shipyards and first-well locations, this could be in excess of 30 days at sea.

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