

Systems (and Software) Safety Engineer



COMPANY OVERVIEW

Founded in 1987, Stirling Dynamics has grown from a handful of expert engineers to a team of 100+ staff. The success of the company is made possible through a customer-focussed, can-do culture. Everything we do is underpinned by our company mission statement:

- To deliver innovative technical services and technology solutions into our core markets
- To build sustainable, beneficial relationships between suppliers, clients and institutions
- To be recognised as an innovator and catalyst of new technologies
- To continue to make valuable investments for the future through education, research and development

STIRLING AT A GLANCE



70+

Aircraft worked on



300+

F-35 pilot control sets produced



10+

Navies supported worldwide



30+

Years of service



6

Technical papers presented to industry last year



80%

Percentage of exports

STRATEGY AND BUSINESS PERFORMANCE

Strong financial performance is essential to support investment and growth. Looking forward we aim to achieve the following objectives:

- Increased business development and marketing activities to develop new markets
- Addition of new engineering capabilities to meet emerging customer needs
- Technology refresh for control products and systems
- Increased investment in training and professional development schemes

BENEFITS



Up to
30 days

Annual Leave



Tax/NI savings

Pension Scheme



10am-4pm

Flexible Working

½ day Friday



Up to
£1,000

Cycle to Work



Personal/ Company

Bonus



Up to
£3,000

Recommend a Friend



Private

Healthcare



2x salary

Life Assurance

We offer a range of benefits to our employees to recognise their efforts. Playing hard is equally as important as working hard, so regular events are held throughout the year which provide an ideal opportunity to mix socially.

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THE ROLE

Due to an increase in volume of work from new contracts and supporting continued growth, Stirling Dynamics is looking for a Systems (and Software) Safety Engineer on a consultancy or contract basis for aerospace and marine equipment programmes.

The ideal candidate would be able to lead all systems software safety engineering activities of the business within the aerospace and marine environments from safety planning to safety case development. The candidate will bring a wealth of experience in actively delivering safe systems within the overall equipment programme. It is essential the candidate has a thorough understanding of applied safety engineering and assurance from one of the main perspectives: functional safety (through IEC61508) or SAE processes (through ARP 4754 DO-254/DO-178B/C) or other equivalent guidelines and standards (e.g. Nuclear, Rail or Space).

Working across our aerospace and marine systems programmes, the ideal candidate will be flexible, willing to learn and value a changing environment. An experienced operator who can lead safety programmes of work and represent the safety endeavour to Independent Safety Auditors (ISA), safety authorities and internal stakeholders.

This role is based in our Clifton office (moving to North Bristol, December 2019) and may require occasional trips to customer sites in the UK or internationally. **The candidate must be willing to undergo and obtain UK Security Clearance.**

KEY ACCOUNTABILITIES

- Act as Subject Matter Expert (SME) across the business in systems & software safety
- Be a key part of a systems and safety engineering team across multiple programmes
- Act as the principal point of contact for safety related matters on allocated projects
- Develop safety processes and regimes on allocated projects and oversee operation
- Derive safety requirements within the required safety regimes
- Take responsibility for ensuring safety requirements are assessed and evidenced
- Be willing to travel and engage with Independent Safety Auditor (ISA) and safety authorities
- Promote within the project environment adherence to safety, quality and standards, including those issued via the Company's Quality Management System, classifications and statutory bodies

QUALIFICATIONS, KNOWLEDGE AND SKILLS

- Bachelor's Degree qualified in a STEM subject of relevance (Master's degree or PhD preferred)
- Demonstrable experience of working in a safety-related discipline in the aerospace or defence industries
- Evidence of attendance and completion of safety related course(s) of study or professional development
- Thorough understanding of applied safety engineering and assurance from one of the main perspectives: functional safety (through IEC61508) or SAE processes (through ARP 4754 DO-254/DO-178B/C) or other equivalent guidelines and standards (e.g. Nuclear, Rail or Space).
- The candidate will understand or be able to conduct (no expectation of demonstrable experience in all methods): Safety Management Planning, Safety Reviews, Suitably Qualified and Experienced Personnel (SQEP) assessments, Functional Hazard Assessments (FHA), Preliminary System Safety Assessments (PSSA), System Safety Assessments (SSA), Fault Tree Analysis (FTA), Failure Mode and Effects Analysis (FMEA), Common Cause Analysis (CCA), Software (specific) Hazard Analysis (SHA), Goal Structured Notation (GSN), Safety Case (development) and Report (SCR).
- Proven experience of working within DEF-STAN 00-56 mandated environment (highly desirable)
- Practical experience assuring safety within the systems "V-Model" lifecycle
- Experience in writing safety documentation across the lifecycle from planning to safety case reports
- Awareness of product Configuration Management (CM) and its application to the product
- Understanding of the constraints of operating within the aerospace and marine domain
- Exposure to DOORS for requirements management and computer aided safety tooling (e.g. FaultTree+)

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PERSONAL CHARACTERISTICS

The personal qualities of the jobholder will be key to success in this role. The following characteristics and qualities are identified as essential for the role:

- “Risk-management” minded in their approach to the identification and mitigation of hazards
- Can command respect and operate with independence
- Pragmatic, understands ALARP, finds solutions and not just barriers
- Maintains a firm position whilst retaining the respect of stakeholders
- Enthusiastic, self-motivated and be able to demonstrate initiative
- An ability to manage multiple tasks and work independently when required
- Ability to take ownership of an activity and see through to a successful outcome
- Demonstrable diplomatic and professional approach when dealing with colleagues and customers
- Confidence to challenge practices and the willingness to question to gain a full understanding of issues
- The capability to work efficiently and accurately, with an attention to detail

FACTS AND FIGURES

Pay & Benefits	–	Competitive Package
Department	–	Safety
Reporting to	–	Head of Safety / Chief Engineer / Project Manager
Location	–	Clifton (moving to North Bristol, December 2019)
Contract type	–	Full-time, consultancy/contract
Job Reference	–	28/19