Lead Systems Engineering Consultant

Who We Are

SA Group is a Cyber Security, P3M and Technical consultancy working in Defence Security plus broader public service and blue chip commercial markets. We have ambitious growth plans over the next 5 years, aiming to expand into new sectors and internationally too. A recent strategic review of the business structure has created a number of new consultancy positions to help achieve this growth. The company is made up of around 40 consultants and business support professionals and based in a beautiful rural location near Westbury, Wilts. We are a highly energetic, tenacious and meritocratic team with grown up, people focussed values. If that sounds like you too, please get in touch.

Role Description

SA Group Ltd is looking for a Senior Systems Engineering consultant to strengthen our growing team of expert consultants.

Main Responsibilities:

- Lead and manage the technical development of systems from project initiation to entry-into-service; ensure appropriate systems engineering tools and processes are selected, adopted and followed, and be instrumental in and further develop our own systems engineering processes;
- Collecting the requirements of systems from users, customers and other stakeholders via interviews, questionnaires, user observation, workshops, brainstorming, use cases and other appropriate requirements gathering methods;
- Documenting, analysing, tracing, prioritising and agreeing on requirements and then controlling change and communicating to relevant stakeholders throughout a project. Ensuring that the development process is continually requirements-driven, and that requirements are rigorously verified both in design and product;
- Undertake systems architecture studies to identify preferred and optimal candidate solutions, taking into account design trade-offs between subsystems, new technology opportunities and risks, requirements, and project cost and time constraints;
- Creating conceptual models defining organisation, structure and behaviours of the required systems, enabling decomposition of complex systems;
Model Based Systems Engineering (MBSE): Formalised application of modelling to support system requirements, architecting/design, analysis, verification and validation activities beginning in the conceptual design phase and continuing throughout development and later life cycle phases;

- Analysis of Complex systems in order to define and structure strategies for integration;
- Support the development of appropriate integration and testing strategies;
- Define test requirements, specifications and scripts;
- Manage the test execution, results and associated data;
- Create and execute interdisciplinary processes to ensure customer and stakeholder’s needs are satisfied;
- Continually evaluate, review and advise on current technologies;
- Support the detailed planning to successfully execute the identified strategy;
- Any other duties as required.

Role Education and Experience Requirements

The SA Group Consultant is required to have suitable experience to undertake tasks for a client in a number of specialist areas. Demonstrated evidence is required in the key areas of management expertise. At this level, a successful candidate must be able to and be comfortable with working and communicating at all levels within the client organisations.

**ALL CANDIDATES MUST HOLD, OR BE ABLE TO GAIN, UK GOVERNMENT SECURITY CLEARANCE. Minimum SC, preferable DV.**

**Qualifications, Skills and Experience:**

- INCOSE CSEP qualified (or evidence of working towards) minimum;
- Holds a BSc in Systems Engineering, Physics, or equivalent experience;
- CEng chartered or working towards chartered status;
- Minimum of 5-10+ years’ experience in a Systems Engineering role;
- Experience with Tactical C4I systems;
- Strong understanding of the Systems Engineering life cycle and Systems Thinking;
- Experience of writing Systems Engineering Management Plan’s (SEMP) for large/complex systems;
- The ability to understand and manage associated risks;
- Civil Nuclear experience highly desirable;
- Prior experience within Defence, Space or Rail industries is desirable.

**SA Group employees should be able to demonstrate a number of personal attributes including:**

- Leadership and mentoring;
Excellent organisational skills, energy and enthusiasm;
Excellent written and verbal communication skills with all levels of staff and customers;
Good business awareness and a high level of customer focus;
Ability to work under pressure and meet deadlines;
Ability to manage multiple tasks and prioritise accordingly;
Self-motivated;
Desire for learning and self-improvement;
Ability to build and develop trusted relationships with clients;
Flexible and adaptable, with a willingness to take on new tasks where less knowledge or experience is held;
Has a lively sense of humour, wanting/desiring to be part of a company that encourages a relaxed, but professional, approach to business;
Use instinct and judgement to spot problems and be able to hold sound decisions, even in the face of adverse reactions.