

Job Description

Job Title:	Senior HFI Engineer	Job Holder:	
Division:	Engineering	Grade:	PC
Discipline Area:	Systems	Last Updated:	Aug 2024

<p>Job Purpose:</p> <p>SEA’s Senior Human Factors Integration (HFI) Engineer will be involved with the delivery of HF across the business. They will input to our HFI approach and its execution within all products, in accordance with company strategy. The role holder will influence design work to ensure that SEA products are easy to use and meet HFI Customer requirements; and that our availability and maintainability targets can be achieved for the requisite number of years into the future.</p> <p>The role will involve the HFI Engineer in all aspects of the design lifecycle, ensuring that the required artifacts are produced throughout. This work is likely to involve sensitive information so they must be able to obtain the necessary security clearance.</p> <p>There is a requirement to interface with both internal and external stakeholders , ensuring that all of the pertinent HFI design factors are covered. The individual will be required to liaise closely with Engineers from all disciplines: Systems; Software; Electrical; and Mechanical Engineering, as well as with the relevant Project, Programme and Bid Managers.</p> <p>The role holder will be required to work across all of SEA’s three UK sites in the West of England (albeit based at the one of their choosing), and at customer and supplier sites as required. They may also occasionally be asked to travel abroad to SEA overseas sites.</p> <p>You will be expected to have a degree in HF and Ergonomics or Psychology. You should also be a member of CIEHF or equivalent e.g. BPS.</p>
<p>Responsibilities:</p> <ul style="list-style-type: none"> • Managing HFI activities, including: <ul style="list-style-type: none"> ○ Generation and Review of HFI Documentation and Requirements ○ Carrying out Ergonomic / Anthropometric Assessments ○ Undertake key HF analysis such as Workload Assessments, Link Analysis, Task Analysis ○ Develop and manage HF Integration Plans ○ Attend or facilitate HFI Working Groups ○ HFI input to ILS activities, including Maintenance activities ○ HFI input into Human Computer Interface work and Human Machine Interface work ○ HFI input into Verification & Validation (V&V) activities ○ HFI inputs into Safety Cases • HF Input to Training/Reviewing Subcontracted work and other management activities associated with outsourcing HSI activities • Providing HFI technical input to bidding activities
<p>Key Result Areas:</p> <p>The jobholder will be expected to:</p> <p>Project / Product Delivery 85%</p>

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- Prepare documentation and presentation material, communicating technical subject matter effectively to audiences at both working and senior management levels.
- Carrying out HFI Assessments.
- Provide the HFI analysis and expertise to improve product safety, useability and maintainability.
- Influence designs to meet standards such as: - ISO 9241, ISO11064, JSP 912 (including HuFIMS familiarity), DEFSTAN 00-551.
- Coordinate directly with internal and external stakeholders.

Business Development Support 15%

- Provide technical expertise and support to the Business Winning function, including the generation of technical proposals and bids.
- Assist in the evaluation of new technologies and methodologies.
- Support business winning activities by defining technical work packages definition and estimating related resource effort.
- Support and enable innovation and process improvement activities.

General

- Understand and implement the company’s environmental, health & safety (HS&E) policy by accepting individual responsibility and taking responsibility for those personnel under their authority, including others who may be affected by the company’s activities.
- Ensure personnel are aware of their own responsibility towards H&S and are equipped accordingly.
- Set a strong personal example regarding all health and safety matters.

Values:

- **Safety First** – We operate safely and responsibly, protecting each other and the environment.
- **One SEA Team** – We are in this together. One team, working ethically, respectfully & professionally. We take responsibility and challenge each other constructively
- **People Focussed** – We all contribute to making our culture one that is supportive and empowering; where everyone can grow and develop, feel valued and rewarded. We prioritise a healthy work-life balance
- **Delivery Excellence** – We exceed our commitments by delivering timely, quality outputs whether that’s for each other or our clients and partners. We are always looking for ways to innovate and continuously improve
- **Trusted Partners** - We partner strategically, collaboratively and always with integrity, whether that is between us inside SEA or externally

Training: (if applicable)

Reporting Line

The jobholder will report to the HFI Team Lead

Job Location

The job could be located at any SEA Site, although there will be a requirement to travel to other SEA Offices.

Job Holder Declaration:

I accept the purpose and key result areas of my role with SEA are as outlined above.



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Signature: _____ Date: _____

Line Manager Declaration:

I confirm that the purpose and key result areas of this role are as outlined above have been agreed with me as line manager.

Signature: _____ Date: _____