

Senior Systems Engineer

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Company: Hexagons Autonomy & Positioning division

Location: Calgary

Category: computer-and-mathematical

Overview

Hexagon's Autonomy & Positioning division, is looking for a **Senior Systems Engineer** to join our high-tech engineering and manufacturing company that is committed to customer service excellence and continuous improvement. You are someone with proven technical leadership, collaboration and product development skills who thrives on seeing exciting projects through to completion.

In this role, you will be responsible for leading the product development, along side project managers, for new positioning capabilities for Hexagon's Aerospace and Defense customers. You will be involved in all stages of the product development cycle and will provide Systems Engineering expertise through activities such as requirements management, system architectural design, systems integration, and the assessment of system verification compliance. This role requires collaboration with a cross-functional product development team to identify and mitigate risk, and to ensure that the design meets its functional, quality, schedule, and cost targets.

The Location: Hexagon is a global company with locations around the world. This position is based in Calgary, AB, and works closely with teams located in the UK, California and Texas.

Responsibilities

As part of the Aerospace & Defense team, the **Senior Systems Engineer** will:

Lead the technical aspects of projects in collaboration with the Chief Engineer, Project Manager, and a team of subject matter experts

Evaluate customer requirements and operational use cases to define and decompose system requirements to lower-level design requirements

Develop system architectural designs, including conceptual, behavioral and structural views, critical component selection, interface descriptions, failure modes and effects analyses

Assess cross-domain dependencies

Continuous evaluation of technical risk within the project and proactively work with the team to mitigate risk

Systems integration planning and coordination

Ensure verification compliance of the design with the system requirements, standards and specifications while balancing competing business requirements such as cost and time to market

Complete system and product analyses for reliability, maintainability, testability, usability, survivability, vulnerability, susceptibility, affordability, safety, system security, regulatory, certification, product assurance and other specialties

Contribute to continuous improvement and application of Systems Engineering processes, best practices, and tools

Qualifications

Must-Have:

B.Sc. in Engineering or equivalent

7+ years experience in a high technology, product development environment

2+ years in a Systems Engineering related role

Proven technical leadership experience demonstrated by successfully leading complex products to market

Proven understanding and execution of traditional systems engineering principles

Experience in developing and managing verifiable requirements for systems, hardware, and software

Strong written and verbal communication skills

Must be able to achieve Canadian Controlled Goods security status

Key Success Factors:

Strong collaboration, facilitation and interpersonal skills and the ability to work effectively within a multi-disciplinary team

Strong communication, negotiation, and technical leadership skills

Strong system architectural design and analysis skills

Able to quickly learn about new technologies

Analytical problem-solving skills with systems thinking and attention to detail

Knowledge of the product development life cycle and Systems Engineering V-model

Technical research abilities with the aptitude for sharing of information and expertise

Nice-to-Have:

Expertise with one or more requirements management tools, such as Polarion or DOORS

Experience in robust product design for harsh conditions, such as military, marine, aerospace, agricultural, and automotive environments

Familiar with Functional Safety standards such as ISO 26262, DO-178, and DO-254

Familiar with ASPICE process reference model

Practical application of reliability engineering principles, including FMEA, FTA, MTBF, and RCA

Familiar with GNSS receiver system architecture

Experience working with Aerospace or Defense system integrators

Experience with Model Based System Engineering (MBSE)

Not sure if you meet all the qualifications for this role? Let us decide! At Hexagon, we are committed to a diverse and inclusive work environment. If you're excited about the opportunities this role could bring, we encourage you to apply. If you have any questions

about the role or our company, please email our team at and we will be pleased to follow up with you. Please do not send cover letters or resumes to this address.

The Company: Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector and mobility applications. You'll be joining over 22,000 people in 50 countries on the leading edge of your field. This position is with Hexagon's A&P division, a global technology leader, pioneering end-to-end solutions industry leaders rely on for assured positioning and autonomy on land, sea and air. Our work touches every aspect of life, from sustainability on Earth to enabling autonomy. Within the Autonomy & Positioning division your work will contribute to the operation of our brand(s) NovAtel, AutonomouStuff, VERIPOS and Antcom.

Applicants who require accommodation in the job application process may contact Human Resources at

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