



SYSTEMS ENGINEER

INTERESTING ENGINEERING JOBS IN
THE NORTH EAST

SYSTEMS ENGINEER

OVERVIEW

Systems engineers typically focus on the design, integration, and management of complex systems. Systems engineers can be involved in all stages of a systems life cycle, from initial concept, to troubleshooting fatal failures, and deciding whether to take it out of service. These individuals work on the design, development, validation, quantitative risk assessments, performance evaluation, testing and costs of the entire system and its relevant sub-parts. These jobs are high in demand and industries such as manufacturing, aerospace, and construction are constantly recruiting systems engineers!

REGIONAL PRESENCE

The region is home to many companies from various sectors that all require the skills of a systems engineer. Industries thriving in the region, such as construction and process engineering, are always in need of systems engineers to help improve and monitor their complex systems - as this industry continues to grow, so does the need for new skilled workers! Manufacturing companies in the region will all require systems engineers to help increase the efficiency of their processes and production line to help keep produce good on time and within budget. This industry is particularly well known and companies in the region are really excelling with some innovative processes - all of which would have involved the work of systems engineer!



SKILLS REQUIRED

Some skills you'd need to excel in this role include:

Communication

Whether working on your own or in a team, you'll need to communicate with a variety of people, so being able to speak, listen and write about the ideas and the project is vital.

Mathematics

This job requires a good understanding of engineering principles and mathematics will be used on a regular basis, so being competent in maths is key.

Problem solver

You'll essential work to solve engineering problems, so being able to identify and solve any issues that arise is essential.

Detail orientated and Methodical

You'll need to work in a logical order and have a keen eye to stop and prevent any potential errors from occuring along the way.

EDUCATIONAL ROUTES

To gain a job as a systems engineer you'll need a degree in engineering - you can choose a specialised degree if you know which industry you want to work in, such as Aerospace systems engineering, but all engineering degrees will cover systems. You can go on to gain a chartered engineering status, but for this your degree must be accredited by an engineering institution and you must also have completed studies at Masters level. Once you've completed your studies and gain the necessary industrial experience, you can then gain chartered status. You can go into work after a foundation, undergraduate or postgraduate degree. Universities in the region, such as Newcastle and Durham, offer fantastic courses in engineering.

FOR MORE INFORMATION

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