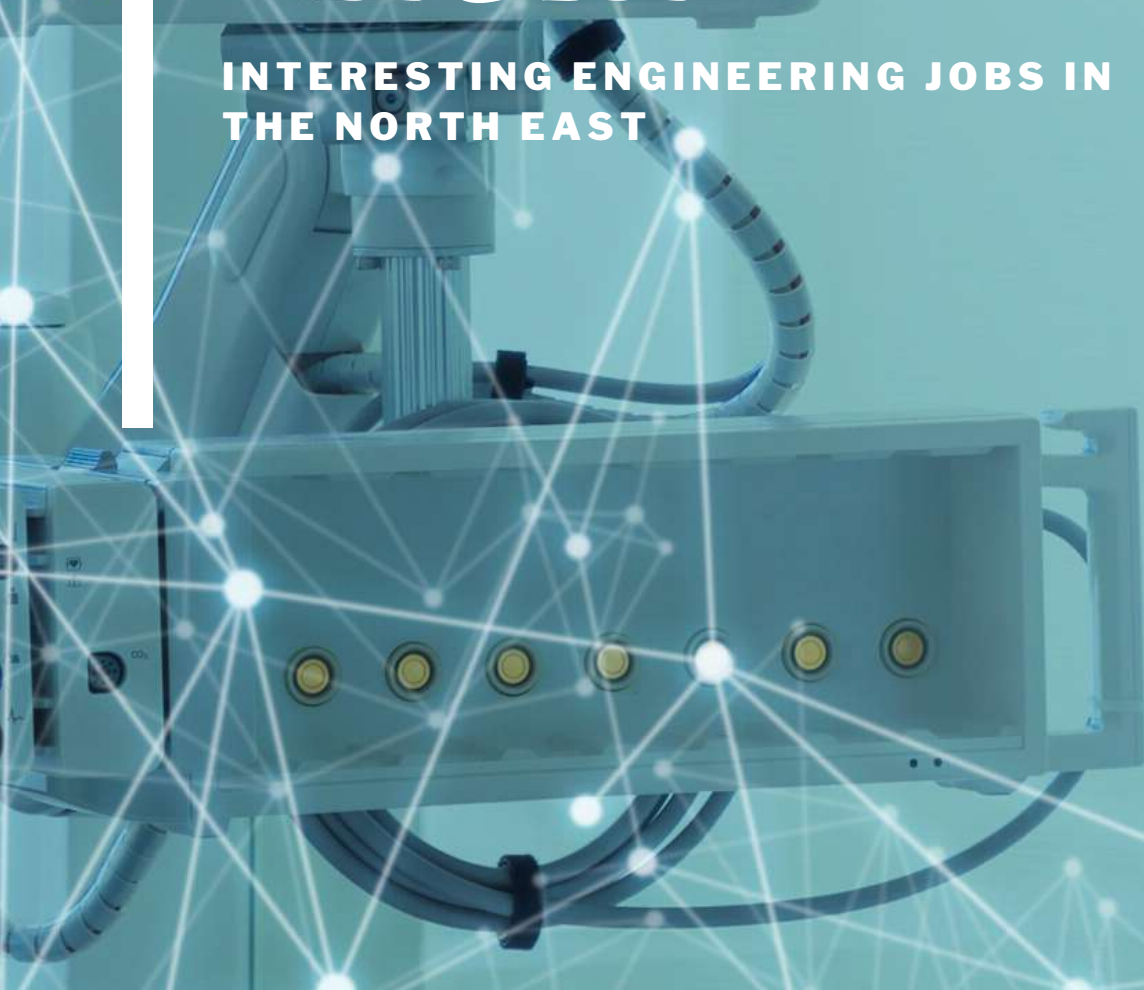


# BIOMEDICAL ENGINEER

**INTERESTING ENGINEERING JOBS IN  
THE NORTH EAST**



# BIOMEDICAL ENGINEER

## OVERVIEW

Biomedical engineers apply engineering principles to healthcare and typically focus on the design, development, integration, and management of medical devices and systems. This could include designing robotic limbs, developing joint replacements or researching new techniques. Tasks in this role will vary depending on what you choose to specialise in, but typical tasks include: using computer software and mathematical models to design, develop and test new materials and devices, conducting research to solve clinical problems and testing and maintaining clinical equipment.

## REGIONAL PRESENCE

The region is home to many companies that all require the skills of a biomedical engineer - like the NHS! There are a few centres of excellence in the region which really make STEM in the North East stand out! Life sciences is thriving in the region and the skills of a biomedical engineer are always needed - as this industry continues to grow, so does the need for new skilled workers! Organisations like the NHS, QuantuMDx and biosignatures are working on creating and developing some cutting edge medical technology, which all would have required the expertise of a biomed 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 within healthcare, 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 occurring along the way.

## EDUCATIONAL ROUTES

To gain a job as a biomedical engineer you'll need a degree in engineering - all engineering degrees will give you the skills needed, but you'd want to specialise and ideally complete a biomedical, electrical or mechanical engineering degree. 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 completing an 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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