

Civil and Infrastructure Engineering Projects (SCQF level 4)

Outcome 2



Introduction

- Civil and Infrastructure Engineering Projects is an initiative created by the Academy9 education programme to support pupils to identify the relevance in school work to the workplace.
- This outcome is about discovering who works on a civil and infrastructure engineering project.



Background

The company working on the Civil Engineering and Infrastructure project need to recruit some new employees to work on this project. It is important that they find the correct people for these job roles.



Brief

Choose 2 job roles which would be relevant to this infrastructure project. Create an advert for each of the 2 jobs.

Include:

- At least 3 facts for each job about what the job involves.



Research

What do job adverts look like? What kind of information do they contain?

Compare the two job adverts below and make notes on the above questions.



ORANGE Consultants

We are hiring!

Project Manager

Duties:

- Coordinate internal resources and third parties/vendors for the flawless execution of multiple projects
- Develop a detailed project plan to monitor and track progress
- Measure performance using appropriate project management tools and techniques
- Report and escalate to management as needed
- Manage the relationship with the client and relevant stakeholders

Essential criteria:

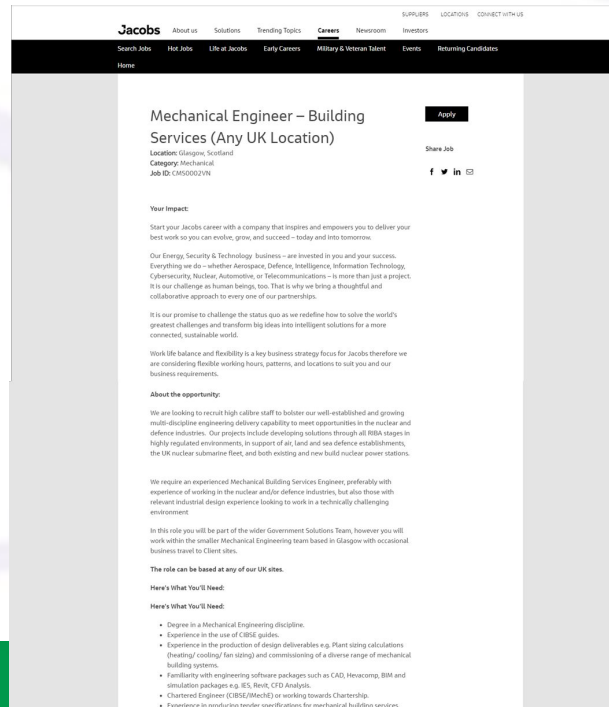
- Proven working experience in project management
- Excellent client facing and internal communication skills
- Excellent written and verbal communication skills
- Solid organizational skills including attention to detail and multitasking skills

Remuneration:

- £50000 plus benefits

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Mechanical Engineer – Building Services (Any UK Location)

Location: Glasgow, Scotland
Category: Mechanical
Job ID: CMA50021N

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Your impact:

Start your Jacobs career with a company that inspires and empowers you to deliver your best work so you can evolve, grow, and succeed – today and into tomorrow.

Our Energy, Security & Technology business – are invested in you and your success. Everything we do – whether Aerospace, Defence, Intelligence, Information Technology, Cybersecurity, Nuclear, Automotive, or Telecommunications – is more than just a project. It is our challenge as human beings, too. That is why we bring a thoughtful and collaborative approach to every one of our partnerships.

It is our promise to challenge the status quo as we redefine how to solve the world's greatest challenges and transform big ideas into intelligent solutions for a more connected, sustainable world.

Work life balance and flexibility is a key business strategy focus for Jacobs therefore we are considering flexible working hours, patterns, and locations to suit you and our business requirements.

About the opportunity:

We are looking to recruit high-calibre staff to bolster our well-established and growing multi-discipline engineering delivery capability to meet opportunities in the nuclear and defence industries. Our projects include developing solutions through all R&D stages in highly regulated environments, in support of air, land and sea defence establishments, the UK nuclear submarine fleet, and both existing and new build nuclear power stations.

We require an experienced Mechanical Building Services Engineer, preferably with experience of working in the nuclear and/or defence industries, but also those with relevant industrial design experience looking to work in a technically challenging environment.

In this role you will be part of the wider Government Solutions Team, however you will work within the smaller Mechanical Engineering team based in Glasgow with occasional business travel to Client sites.

The role can be based at any of our UK sites.

Here's What You'll Need:

Here's What You'll Need:

- Degree in a Mechanical Engineering discipline.
- Experience in the use of CBSE guides.
- Experience in the production of design deliverables e.g. Start drawing calculations (heating/cooling fan sizing) and commissioning of a diverse range of mechanical building systems.
- Familiarity with engineering software packages such as CAD, Hvaccomp, BIM and simulation packages e.g. ES, Revit, CFD Analysis.
- Chartered Engineer (CIBSE/MechE) or working towards Charteredship.
- Experience in production nuclear specifications for mechanical building services.

Research

Find out what jobs are involved on the A9 dualling project. Choose 2 job roles and find out what they involve.

Useful links

[Academy9 pupil resource page for this qualification.](#)

Job adverts



ORANGE Consultants

We are hiring!

Project Manager

Duties:

- Coordinate internal resources and third party vendors for the business execution of multiple projects
- Develop a detailed project plan to monitor and track progress
- Measure performance using appropriate project management tools and techniques
- Report on the status of management as required
- Manage the relationship with the client and relevant stakeholders

Essential criteria:

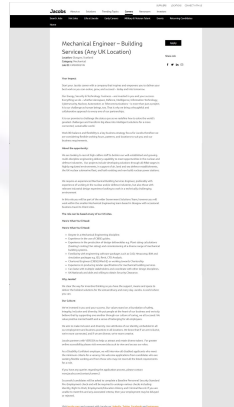
- Proven working experience in project management
- Excellent client facing and internal communication skills
- Excellent written and verbal communication skills
- Solid organisational skills including attention to detail and multi-tasking skills

Remuneration:

- £35000 plus benefits

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Mechanical Engineer - Building Services (Any UK Location)

Job Description:

The successful candidate will be responsible for the design, installation, commissioning and maintenance of building services systems including heating, ventilation, air conditioning and refrigeration systems. They will also be responsible for the design and installation of electrical systems, including lighting, power and data systems.

Key Responsibilities:

- Design and specify building services systems
- Prepare technical drawings and specifications
- Coordinate with other disciplines to ensure system integration
- Manage the installation and commissioning of systems
- Provide technical support and training to staff
- Conduct regular maintenance and repairs
- Ensure compliance with relevant regulations and standards

Essential Skills:

- Degree in Mechanical Engineering or equivalent
- Professional Institution membership (e.g. IMechE)
- 5 years experience in building services design and installation
- Excellent communication and interpersonal skills
- Strong attention to detail and ability to work under pressure

Remuneration:

- Competitive salary and benefits package

Who works on the A9 dualling project [PowerPoint Presentation \(glowscotland.org.uk\)](#)

[Selection-of-professionals-working-on-the-A9-Dualling-Programme.pdf \(glowscotland.org.uk\)](#)

Videos of people who work on the A9 [Vlogs | Academy9 \(glowscotland.org.uk\)](#)

My World of Work Career profiles, what do these jobs involve? [Job categories | My World of Work](#)

Es and Os, Career Education Standard goals.

CfE:

- I am investigating different careers/occupations, ways of working, and learning and training paths. I am gaining experience that helps me recognise the relevance of my learning, skills and interests to my future life. HWB 2-20a / HWB 3-20a / HWB 4-20a
- I can solve problems through the application of engineering principles and can discuss the impact engineering has on the world around me. TCH 4-12a
- I can extend my use of manual and digital graphic techniques to realise ideas, concepts and products and recognise the importance of real world standards. TCH 4-11a
- I can make notes and organise them to develop my thinking, help retain and recall information, explore issues and create new texts, using my own words as appropriate. LIT 3-15a / LIT 4-15a
- I can justify my choice and use of layout and presentation in terms of the intended impact on my reader. LIT 4-24a

Career Education Entitlements:

- Experience a curriculum through which they learn about the world of work and job possibilities and which makes clear the strengths and skills needed to take advantage of these opportunities
- Develop skills for learning, life and work as an integral part of their education and be clear about how all their achievements relate to these.
- Develop understanding of the responsibilities and duties placed on employers and employees.
- Know where to find information and access support making effective use of online sources such as *My World of Work*.
- Develop CMS as an integral part of their curriculum, (strengths, horizons, networks).