

Job Description

Bridge Engineer

Service:	Highway Operations and Design	Team:	Bridges Design Team
Location:	County Hall, Preston		
Salary range:	£36,363 to £40,778	Grade:	G8
Reports to:	Principal Engineer/Lead Engineer		

Job Purpose

You will work within the Bridges Design team on a range of schemes at various project stages (listed below). You may also be assisting other colleagues on large scale projects.

The core duties of this role are:

1. Able to work without supervision to complete technical tasks. This may include understanding, clarifying and developing briefs; site surveys, structural inspections, site assessment, undertaking and presenting written feasibility studies; using appropriate design standards, code of practices and guides to design/strengthen or assess bridges structures or highway retaining walls.
2. Assist senior colleagues and project managers by carrying out tasks on technical projects. Assist in the management of schemes, quality supervision of site activities and carry out inspections or surveys.
3. Using technical experience to assess a range of parameters to reach a solution or course of action to progress a task to meet client brief or expectations. Present work in formats such as technical reports, drawings and other works information (contract, specifications).
4. Using industry standard specifications, guidance and technical analysis software including the use AutoCAD for producing drawings.
5. Using your technical knowledge and experience to provide advice to clients and colleagues.
6. Communicate with other stakeholders and organisations to share information, build relationships and suggest improvement to current ways of working which benefit service delivery.

Accountabilities/Responsibilities

1. Develop cost effective design solutions and prepare drawings, schedules and documents to support the construction phase.
2. Produce structural analysis calculations or inspection and assessment for bridge or highway retaining wall structures.
3. Record and monitor costs during the design and construction process and report on the budget position.
4. Provide site supervision during the construction phase of a project and effectively address any matters that arise.
5. Provide workplace mentoring and guidance to less experienced members of staff to ensure they are able to develop the necessary skills to deliver in their role.

Other

- **Equal Opportunities**
We are committed to achieving equal opportunities in the way we deliver services to the community and in our employment arrangements. We expect all employees to understand and promote this policy in their work.
- **Health and safety**
All employees have a responsibility for their own health and safety and that of others when carrying out their duties and must help us to apply our general statement of health and safety policy.
- **Customer Focused**
We put our customers' needs and expectations at the heart of all that we do. We expect our employees to have a full understanding of those needs and expectations so that we can provide high quality, appropriate services at all times.

Our Vision

We are building a better Lancashire where everyone can live their best life through stronger communities, a growing economy and high-quality public services.

Our Values

We expect all our employees to demonstrate and promote our values:

- **Supportive**
We are supportive of our customers and colleagues, recognising their contributions and making the best of their strengths to enable our communities to flourish.
- **Innovative**
We deliver the best services we possibly can, always looking for creative ways to do things better, putting the customer at the heart of our thinking, and being ambitious and focused on how we can deliver the best services now and in the future.
- **Respectful**
We treat colleagues, customers and partners with respect, listening to their views, empathising and valuing their diverse needs and perspectives, to be fair, open and honest in all that we do.
- **Collaborative**
We listen to, engage with, learn from and work with colleagues, partners and customers to help achieve the best outcomes for everyone.

Person Specification ***Bridge Engineer***

All the following requirements are essential unless otherwise indicated by *

Your ability to meet the job requirements will initially be assessed by the information provided on your application but further assessment will be undertaken at interview and, in some cases, by using other types of assessment(s).

Qualifications
- Recognised vocational qualification in civil and/or structural engineering plus several years of civil and/or structural engineering experience OR - Graduate in civil and/or structural engineering and relevant post graduate experience OR - Working towards a professional qualification in civil and/or structural engineering with sound practical experience OR - Technical training in civil and/or structural engineering with sound practical experience
Experience
Experience of working independently within recognised highway structures design/assessment or construction standards, codes of practice, guidelines and council policy. This may include using specialist equipment or software.
Essential knowledge, skills & abilities
- Knowledge of civil engineering design/assessment and construction methods, equipment and/or technical software relevant to the role, plus an understanding of council policies related to the role - Analytical skills and problem-solving capability - Ability to informally train and mentor less experienced staff - Ability to influence others based on technical or professional expertise - Ability to work in a team and to build and maintain effective working relationships and networks.
Other essential requirements
- Commitment to equality and diversity. - Commitment to health and safety. - Always display the LCC values and behaviours and actively promote them in others. - This is an essential car user post

You will be required to provide a car for use in connection with the duties of this post and must be insured for business use. In certain circumstances consideration may be given to applicants who, because of a disability, are unable to drive

- UK citizen or have a right to work in the UK.

LANCASHIRE COUNTY COUNCIL

PRE-EMPLOYMENT RISK IDENTIFICATION FORM (R.I.F.)

(NB Completion of this form does not fulfill the requirement to undertake a general risk assessment under the management Health and Safety at Work Regulations 1999)

A Pre-employment Risk Identification Form must be completed by the Head of Service/ Headteacher/Line Manager. If any assistance is required in completing this form, please contact the Health and Safety Team.

CONFIDENTIAL

Team/Establishment	Bridge Engineering, Highways Operations and Design
Post title	Bridge Engineer
Description of main activities the employee will be required to undertake (or attach generic profile) See advert and role profile	
Form completed by: (print name) Adam Ratcliffe	

A. The post to which this form refers will or may involve one or more of the following activities. (Please indicate YES or NO)

Managers should note that if any of the following 10 activities are involved, there is an automatic requirement for a pre-employment assessment by Occupational Health and, possibly, for subsequent Health Surveillance.

		YES	NO
1	Work at heights (<i>e.g. over 2m from tall step/extension ladders; scaffold towers, roofwork etc</i>).	☒	☐
2	Work in excessively noisy environments above statutory control limits (<i>Highly unlikely to include examples associated with any office environments. Examples might include use of woodworking machinery, road drilling, masonry cutting etc</i>).	☒	☐
3	Work in unusual environmental conditions (<i>e.g. where access or egress or free flow of air may be restricted or where there may be a build up of gases, vapours or fumes or the use of breathing apparatus is required</i>).	☒	☐
4	Use of hand operated tools and equipment known to be associated with hand arm vibration syndrome (<i>e.g. percussive metalworking tool; rotary handheld tool [not floor polishers]; grinders; percussive hammers and drills etc</i>).	☐	☒
5	Driving a heavy goods vehicle, coach, bus or minibus belonging to Lancashire County Council, transporting others in their own vehicle, or regularly transporting more than three other people as part of normal duties.	☐	☒
6	Some contact with hazardous substances (<i>e.g. chemicals with an orange warning label indicating: very toxic; toxic; harmful; corrosive; sensitising by inhalation/skin contact; carcinogenic; mutagenic; toxic for reproduction; professional bio/pesticides; organophosphates; gluteraldehyde; latex gloves</i>).	☐	☒
7	Prolonged or frequent exposure to machine generated wood dust, or other heavy or excessive concentrations of mineral dust.	☐	☒
8	Work with lead or lead-based products (<i>e.g. some paints</i>).	☐	☒
9	Food handling/preparation (of raw or uncooked food only).	☐	☒
10	Occupational fieldwork or work in extreme conditions (<i>e.g. involving excessive heat or cold or frequent walking for long distances over rough terrain in all weather conditions, forestry/countryside work</i>).	☒	☐

B. The post to which this form refers will or may involve one or more of the following activities. (Please indicate YES or NO)

This section is for the information of applicants and does not facilitate a referral to Occupational Health.

		YES	NO
11	Face to face contact with the public/service users (<i>e.g. at sensitive front line posts re abuse, aggression, assault</i>).	☒	☐
12	Working in isolation/lone working.	☒	☐
13	Work with electrical wiring (<i>e.g. colour blindness</i>).	☐	☒
14	Work where there may be an increased risk of needlestick injuries or blood borne infections HIV; Hepatitis B; Hepatitis C: (<i>e.g. site supervisors; site work, grounds or buildings maintenance, gardeners; some carers</i>).	☒	☐
15	Work that may bring the employee into contact with rats, rat contaminated ground or other animals or livestock (<i>e.g. risk of weils disease, other animal borne diseases, zoonoses</i>).	☒	☐
16	Manual handling (<i>other than routine office/administrative lifting and carrying e.g. assisting / moving service users with mobility problems, portering type activities</i>).	☒	☐
17	Working with vulnerable service users (<i>e.g. children with disabilities; the elderly; children/adults with learning difficulties; alcohol/drug abusers</i>).	☐	☒
18	Work involving repetitive movements or forced posture (<i>e.g. twisting, screwing, movements of the hands wrists, arms and/or shoulders awkward body and limb posture or excessive force, bending, kneeling</i>).	☐	☒
19	Work as a regular display screen user (<i>where more than 1/3 of a person's time is spent using DSE continuously over any 1 month period</i>).	☒	☐

Any other occupational hazards/comments that you consider to be relevant to the post which are not included above:

Head of Service/Headteacher/Line Manager (please print)		Adam Ratcliffe	
Telephone Number:	01772 534382	Date:	19 August 2025

V1.4

05/04/2016