**Job Description**

**Senior Design Engineer – Network Development**

The Network Development Team is part of the Sustainable Travel Team at Lancashire County Council, working within the Planning and Transport Service and helping to ensure delivery of sustainable and active travel projects.

The Network Development Team works with other disciplines to identify and develop pipeline sustainable travel schemes to a concept or preliminary design level and supporting bid submissions to various funding streams by providing designs, cost estimates, programmes, and project risks, for highway and street improvements focused on placemaking, decarbonisation and active travel / public transport improvements. This allows the County Council to improve the quality and accuracy of bids, leading to effective and efficient project delivery.

The postholder will work within a small team of engineers, supporting each other's professional development and working together to meet deadlines. The postholder will also be able to manage and take ownership of their own workload whilst carrying out any project reporting as and when necessary. The postholder will consider, identify, and record project risks and the impact they may have on feasibility, cost, and programme.

The postholder will work on a range of projects that are highly collaborative, incorporating knowledge and expertise from a range of LCC services including, Public and Integrated Transport, Highways, Asset Management, Public Health, and Strategic Development. The postholder will work with external bodies such as Active Travel England, carrying out assessments from their toolkit and working with the organisation to improve designs.

**Accountabilities/Responsibilities:**

You will identify highway engineering and place making options and solutions whilst considering key deliverables, constraints, feasibility, and buildability. You will prepare design drawings that meet scheme deliverables and comply with relevant guidance.

You will be a technical lead on schemes and work on multiple projects, ensuring service objectives are met and the authority's statutory duties are complied with, adhering to relevant local and national policy or procedures, coordinating with other disciplines or stakeholders. You will ascertain any requirements they may have and consider their impacts on design, cost, risk, and programme.

You will assess identified routes or corridors against relevant design guidance, producing 2D geometric designs, considering feasibility, cost, and project objectives.

You will produce cost estimates of developed designs, making and recording reasonable design assumptions for various construction series and activities to provide quantifiable information. You will identify and record any decisions and assumptions taken while progressing the design and cost estimates.

You will identify and input project risks into a register, determining the likelihood and impacts and using this to help inform appropriate contingencies. You will reduce risks by increasing the certainty of information through further design development.

In addition to the accountabilities and responsibilities described above, you may be required to undertake lower graded tasks to ensure effective service delivery.

Due to the changing nature of the business, this job description serves as a framework to outline the main areas of responsibility. It is not intended to be either prescriptive or exhaustive and will inevitably change. You may be required to undertake other activities of a similar nature that fall within the remit of your area of work, as directed by service management, and this may entail working from other locations. Due to the varying remit of the role, a candidate may still be considered if they don't meet all essential criteria below where it could otherwise be accommodated for within the team.

**Person Specification**

**Highway Design Engineer - Network Development**

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| **Requirements:** | **Essential (E)**  **or**  **Desirable (D)** | **Identified by Application Form (A), Interview (I), Test (T)** |
| **Qualifications:** |  |  |
|  |  |  |
| Bachelors Degree (or equivalent) in relevant field plus a minimum 2 years' experience in a similar role  **Or** significant vocational experience in highway design  **Or** formal professional qualification within specialism. | E | A |
| **Experience:**  Experience of undertaking feasibility and design work for highways schemes | E | A,I,T |
| Experience of working collaboratively with multidisciplinary teams and organisations  Experience of delivering projects to an agreed scope within time, cost or quality constraints.  Experience of producing cost estimates or bills of quantities using schedules of rates or obtaining rates and quotes from suppliers | E    E  D | A,I,T  A,I,T  A,I,T |
|  |  |  |
| **Knowledge and Skills:**  Proficient ability in AutoCAD or equivalent | E | A,I,T |
| Knowledge of the application, principles, theory, and practice of the specialist area of responsibility  Ability to apply technical / specialist judgement and ensure designs best align with scheme objectives.  Strong analytical and problem-solving skills.  Ability to act on own initiative and operate in a proactive way. | E  E  E  E | A,I,T  A,I,T  A,I,T  A,I,T |
| **Other (including special requirements):**  Commitment to equality and diversity.  Commitment to health and safety.  Display the LCC values and behaviours at all times and actively promote them in others.  This is an essential car user post.  *(In certain circumstances consideration may be given to applicants who, as a consequence of disability, are unable to drive.)* | E  E  E  E | A,I  A,I  A,I  A |