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| **Job details** | |
| **Job title** | ITS Engineer |
| **Job Reference** | 20356 |
| **Grade and Salary** | 6 - £40,777-£47,054 per annum (pro rata for part time)  This role includes performance related pay progression |
| **Service and Team** | Highways-Infrastructure Maintenance and Commissioning |
| **Location** | Endeavour House, 8 Russell Road, Ipswich IP1 2BX or Phoenix House, 3 Goddard Road, Ipswich, IP1 5NP – Hybrid working |
| **Hours per week** | 37 |
| **Status** | **Permanent** |
| This role may offer the following flexible working options | * *Working part time hours (eg different hours/days to those advertised)* * *Job sharing* * *Working compressed hours (eg a nine-day fortnight)* * *Term time working (including partial term-time working)* * *Use of flexitime / time off in lieu* * *Hybrid working options, including some home working* * *Working from different Council buildings* * *Working adjusted core hours (eg starting later and finishing later or other patterns)* |

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| **About us** |

As a modern and effective council, we understand the importance of being flexible and well-connected in the ways we work. We focus our ambitions on doing what’s right for people, our partners and our communities - both now and for the future.

That’s why, as one of the largest employers in Suffolk, we believe in empowering everyone. Through career variety and collaborative working, accessible career paths and professional development.

The support and care we offer encourages and enables you to be the best you can be. To make a meaningful impact on the world around you. To achieve a unique sense of pride in what you do, why you do it and where. **Reimagine the possibilities.**

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| **Main purpose of the job** |

* To support the Intelligent Transport Systems (ITS) Manager and Senior ITS Engineer to develop and manage a countywide ITS service.
* Together with other ITS Engineers and Technicians, provide day to day operational management of the highway network; monitor and manage the ITS equipment, including the VMS.
* Carry out specialist traffic signal design and UTC programming including SCOOT and MOVA validation and configuration.
* Review, analyse and refine operational effectiveness of traffic signal installations; develop operational plans for different scenarios.
* Extract from the ITS servers relevant traffic/transport data for publishing to help the public make intelligent and informed transport and travel choices.
* Maintain Asset Database; check, manage, approve energy and communications accounts.
* Monitor CDB/TMS data streams, determine ‘normal’ operational status, and provide data input for reviewing operational effectiveness of installations.
* Provide design input as required on proposed future transport schemes managed by others; to provide engineering designs, project management of ITS Team schemes.
* Work with Term Maintenance Contractor’s staff and associated Consultants and Designers to deliver ITS related works.
* Responsible for authorization/acceptance of ITS infrastructure on the highway.
* To deputise for the Senior ITS Engineer where appropriate

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| **Suffolk Highways** |

Suffolk Highways is a collaboration between Suffolk County Council and private sector service provider(s) to meet the primary objective of maintaining roads and delivering new highway infrastructure in Suffolk.

Personnel from all organisations work as part of an alliance that aspires to be as effective, efficient, respected as possible and at the forefront of highway maintenance and improvement service delivery.

All personnel in Suffolk Highways shall work to a shared set of values and behaviours.

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| **The expected values and behaviours of all Suffolk Highways’ employees** |

* We work together to achieve the best that we can and support one another in our work as one team.
* We look ahead so that we may better inspire each other to continually improve and take pride in what we do and the service that we provide to our customers.
* We make things happen by empowering, encouraging, and motivating our colleagues and by showing respect to all people that we work with and for.
* We collaborate and work as one team to provide the best possible highways service for Suffolk.
* We take responsibility and do what we say we will do efficiently and effectively.
* We act in a professional manner and demonstrate integrity as we strive to resolve problems and achieve positive outcomes.
* We are here for and will communicate clearly with our customers and be considerate to their needs and aspirations.
* We model our values in everything that we do.

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| **General role expectations** |

* Manage yourself and any personnel for which you may on occasion lead by taking responsibility for your own and their personnel development, motivation, performance, behaviour, health, safety and general wellbeing through the application of appropriate policies, procedures and management techniques.
* Plan and be creative in the use of resources through meaningful application of technology, systems thinking, smarter ways of working, time management and project management tools and techniques.
* Think critically and analytically to provide clarity of vision to others, make decisions and recommendations based on sound rationale, and influence the development and implementation of strategies for positive change.
* Be an effective ambassador for Suffolk Highways and deliver meaningful, convincing and motivational communications internally and externally to Suffolk Highways to a wide range of audiences.
* Work collaboratively with others to build relationships and a network of contacts that will deliver the best outcomes for people and places in Suffolk, whilst accounting for and responding to customer satisfaction and future needs.
* Respond to increasing financial pressure by being creative, innovative and cost-focused, exercising strong financial judgement and risk management to secure optimum efficiency savings, cost reductions and profitability without sacrificing service quality.

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| **What you’ll be expected to personally deliver** |

* Contribute to the development and management of a countywide ITS service.
* Provide day to day operational management of the highway network; monitor and manage the ITS equipment, including the VMS.
* Carry out traffic signal programming including SCOOT and MOVA validation and configuration.
* Review, analyse and refine operational effectiveness of traffic signal installations; develop operational plans for different scenarios.
* Maintain Asset Database; check, manage, approve energy and communications accounts.
* Monitor CDB/TMS data streams, determine ‘normal’ operational status, provide data input for reviewing operational effectiveness of installations
* Extract from the ITS servers relevant traffic/transport data for publishing to help the public make intelligent and informed transport and travel choices.
* Provide design input as required on proposed future transport schemes managed by others; to provide engineering designs, project management of ITS Team schemes.
* Work with Term Maintenance Contractor’s staff and associated Consultants and Designers to deliver ITS related works.
* Responsible for authorization/acceptance of ITS infrastructure on the highway.
* To deputise for the Senior ITS Engineer where appropriate
* Undertake complex design and estimates for ITS related installations.
* Check and approve on behalf of the Local Authority traffic signal designs (inc pedestrian crossings) undertaken by other designers including developers’ consultants•
* Depending on experience, project manages basic or intermediate level scheme/commissions, taking responsibility for quality, cost and time management.
* Prepare and present reports and/or provide technical input to reports prepared by others.
* Provide expertise on the use of Insight, Oracle, Works Manager etc and other systems and processes, such as CDM, used to interface with Suppliers and Contractors.
* To certify payments to contractors and negotiate compensation events
* Negotiate with external suppliers
* Depending on experience write either basic or intermediate safety plans and undertake risk assessment in accordance with Construction, Design and Management Regulations.
* Depending on experience either assist in the preparation of contract documentation or prepare complex contract documentation
* Supervise and administer construction activities to ensure ITS related works are in accordance with designs, standards and safe systems of work, including formal FAT’s and SAT’s.
* Deal with all forms of communication, some of which may be of a complex nature of sensitive nature
* Represent the County Council at external meetings, sometimes in complicated and sensitive areas.

Although this list provides examples of what you will be doing it’s not intended to be exhaustive, and you will have personal objectives linked to our People Plans and Strategies that will be discussed and agreed with your line manager when you start.

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| **Person Profile – what you will bring to the team** |

**Qualifications and professional memberships**

1. MEng. BSc Relevant engineering discipline or equivalent, plus appropriate experience. IEng or working towards IEng/ and/or C.Eng **or**
2. ONC/HNC in engineering discipline (or equivalent) plus very considerable experience

**Values and personal qualities**

1. Demonstrates a passion for making a positive difference for Suffolk.
2. Shares our [[WE ASPIRE](https://www.suffolk.gov.uk/jobs-and-careers/working-for-suffolk-county-council/our-weaspire-values/)](https://www.careers.suffolk.gov.uk/home/about/our-values) Values and strives to lead by example in relation to these.
3. A strong commitment to fairness and Equality, Diversity and Inclusion (EDI).
4. Strives to continuously improve in everything they do, taking the initiative to learn and develop.
5. Brings creativity into their work through innovation and openness to change.
6. Collaborates well with others and offers assistance and support to colleagues.

**Specialist knowledge skills and experience**

1. High level understanding of relevant policy, design and construction standards.
2. Intermediate level understanding of relevant procurement methods.
3. Solve varied problems relevant to area of work.
4. Understanding of maintenance and safety
5. Understanding of legal and procedural context in which work is undertaken.
6. Solve complex and wide- ranging problems.
7. Basic project management skills.
8. Political awareness (i.e. the role of County Councillors, the councils, the sensitivity of particular topics)
9. Prioritises and instructs work for others.
10. Able to co-ordinate council and
11. 3rd party activities.
12. Effective communication of ideas with colleagues and customers
13. Represents County Council at meetings with external parties, sometimes in complicated and sensitive areas
14. Understanding of relevant Health and Safety legislation and codes of practice applicable to highway works
15. Excellent written and verbal skills
16. Experienced in use of appropriate software design packages.
17. Able to visit sites and carry out inspections
18. Occasional out-of-hours working

**Additional requirements**

1. Experienced in use of appropriate software design packages.
2. Able to visit sites and carry out inspections
3. Occasional out-of-hours working

**It would be desirable to have**

1. Intermediate level understanding of legal and procedural context in which work undertaken
2. Good understanding of relevant social issues (i.e. how your work relates to diversity, social inclusion)
3. Capable of evaluating and developing practices within section.
4. Ability to contribute to cross- divisional working groups (i.e. the development of improved policies or practices by working with people from other divisions, directorates and partner organisations).
5. Intermediate level project management skills
6. Ability to deal with considerable levels of work related pressure
7. Experience of writing press releases
8. Preparation of Committee reports

If you think you have what it takes to be successful in this role, even if you don’t meet all the criteria, please apply. We’d appreciate the opportunity to consider your application.

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| **Travel requirements** |

* **Frequent Travel Essential** - You will need to travel, so you must either hold a full, current driving licence and have access to personal transport or meet the mobility requirements of the role through other reasonable and suitable means.

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| **Our values – WE ASPIRE** |



At Suffolk County Council our WE ASPIRE values set out the behaviours we expect from everyone in the organisation regardless of who they are, what their role or grade is or where they work.

The values have been developed through feedback and input from employees at the council and underpin how we go about our everyday work. They define us and help us to be the best we can be.

Visit our [**careers pages**](https://www.careers.suffolk.gov.uk/) for more information on our WE ASPIRE values.

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| **Our Customer Commitment** |

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In addition to our WE ASPIRE values, we also have a **Customer Commitment** which sets out a number of strong principles that help support high standards of customer service and care that we can all endeavour to consistently demonstrate.

For more information, view our [**Customer Commitment poster.**](https://sccrecruit.blob.core.windows.net/assets/SCC/Other-Docs/17.06.2020_%20CUSTOMER_COMMITMENT_POSTER.pdf)

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| **More information for recruitment applicants** |

We offer a fantastic working environment including diverse and active staff networks,

great flexible working options and many benefits, as well as the opportunity to improve the lives of Suffolk residents.

Visit the [**Suffolk County Council career website**](https://eoce.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_3001/pages/11002) to learn more, including information about adjustments to recruitment processes, our interview schemes and other commitments to equality, diversity and inclusion.