

## JOB DESCRIPTION

<b>Job Title</b>	Traffic Control Engineer		
<b>Directorate</b>	Infrastructure and Transport		
<b>Reporting to</b>	Principal Traffic Control Officer		
<b>Grade</b>	10		
<b>Evaluation ref:</b>	AG0520	<b>Job ref:</b>	<b>Family</b> EST10
<b>Role purpose</b>			
<p>As a Traffic Control professional, the job holder has responsibility, under the overall direction of the Service Manager for the management and maintenance of the Councils traffic control assets which include traffic signals, pedestrian crossings and variable message signing; with the aim of making improvements to increase safety and facilitate appropriate use/access.</p>			
<b>Accountabilities</b>			
<p>Modify existing traffic control facilities to improve safety and efficiency.</p> <p>Develop, extend, maintain, and implement changes to traffic control and CCTV systems, and manage any faults identified.</p> <p>Design, supervise, and implement new traffic control facilities and systems.</p> <p>Create and run traffic models using LINSIG for Windows and TRANSYT software.</p> <p>Assistance with the day to day running of the Term Maintenance Contracts.</p> <p>Produce accurate AutoCAD design drawings, and scheme costings.</p> <p>Write microprocessor signal controller specifications and incorporate UTC within the specification.</p> <p>Carry out configuration testing using the Yunex IC4 emulator and blow EPROMS using the Dataman S4 Programmer.</p> <p>Prepare MOVA datasets, commission and validate new sites.</p> <p>Investigate and respond to correspondence, telephone enquiries, e-mails, and personal visitations.</p> <p>Prepare technical reports and present them to managers and councils.</p> <p>Provide accurate information and advice on traffic signal control and technology.</p>			

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Attend and chair technical meetings with departments, contractors, developers, and authorities.

Represent the Council in technical meetings and presentations.

Provide project management, statistical analysis, and technical advice for new and upgrade projects.

Produce statements for legal proceedings and attend court as an expert witness.

Consult and inform elected members on issues and future proposals.

Manage the day-to-day activities of specialist technicians.

Ensure the SC database of signal site information is maintained and updated.

Apply Construction Design and Management regulations to schemes.

Prepare statistical analysis for capital, PFI, and Medium-Term Financial Plan bids.

Liaise with the Service Manager and other authorities to develop KPIs.

Write installation specifications, place orders, and carry out site inspections.

Manage and configure the Yunex Monitoring and Fault Management systems

Disseminate technical knowledge and experience to team members and colleagues.

### Knowledge / Experience / Skills

	Essential	Desirable
<b>Knowledge</b>		
Demonstrable knowledge of traffic control systems and technologies.	x	
Understanding of national and local design guides and practices.	x	
Knowledge of traffic modelling software such as LINSIG and TRANSYT.	x	
Familiarity with microprocessor signal controllers and UTC specifications.	x	
Awareness of Construction Design and Management regulations.	x	
Knowledge of CCTV communication networks and fault diagnosis.		x
<b>Experience</b>		

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Previous experience in traffic control engineering or a related field.	x	
Experience in designing and implementing traffic control systems.	x	
Experience in project management and technical advice.	x	
Experience in preparing technical reports and presenting them.	x	
Experience in responding to enquiries and providing accurate information.		x
Experience in attending and chairing technical meetings.		x
<b>Qualifications / Registrations / Certifications</b>		
Degree in Civil Engineering, Traffic Engineering, or a related field or equivalent relevant experience.	x	
Certification in traffic modelling software such as LINSIG and TRANSYT.		x
Professional membership in relevant engineering bodies.		x
Additional qualifications in project management.		x
Training in microprocessor signal controllers and UTC specifications.		x
Certification in Construction Design and Management regulations.		x
<b>Skills</b>		
Strong analytical and problem-solving skills.	x	
Excellent communication and presentation skills.	x	
Proficiency in using AutoCAD and other design software.	x	
Ability to manage and supervise specialist technicians.	x	
Ability to prepare and present technical reports.	x	
Ability to respond to enquiries and provide accurate information.	x	
<b>Working Conditions</b>		
<p>This role involves working within a dynamic and supportive local authority environment. Candidates should be prepared for the following conditions:</p> <ul style="list-style-type: none"> <li>• <b>Work Hours:</b> Standard working hours are 37, with occasional requirements for evening or weekend work to meet project deadlines or attend community events.</li> </ul>		

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- **Location:** The primary work location is County Hall, with opportunities for remote work as per organisational policies.
- **Travel:** Some travel within the local area may be required for meetings, site visits, and community engagement activities.
- **Work Environment:** The role involves working both independently and as part of a team, with access to modern office facilities and resources.
- **Health and Safety:** Adherence to all health and safety regulations is mandatory, ensuring a safe working environment for all employees.

### Dimensions of the role

#### Contacts & Relationships

The nature of the work involves contact with the following:

- Elected members of the Council to provide professional advice and/or discuss issues related to the service.
- Managers/engineers of the service provider concerning scheme implementation issues. This is through informal meetings, and on an ad-hoc basis.
- Managers and professionals within the Council, other authorities and agencies. For the purposes of liaison, negotiation, information gathering, comparing performance etc.
- Staff within the Department to discuss/liase on technical issues and to provide necessary technical support.
- Civil and control system contractors involved with the implementation, commissioning and maintenance of the installations/systems.

#### Resources

Provide support to the Service Manager in the day to day running of approximately of 300 traffic signal installations, CCTV cameras, Variable Message Signs, Variable Speed Signs and Vehicle Actuated Signs. All the above dispersed across Somerset and with a capital replacement value of approximately £30 million.

Manage individual schemes and technical works cost targets to support the Traffic Control Manager in the spending of the annual revenue budget on proactive and reactive maintenance works; as well enabling the expenditure of extensive capital funding.

Ensure that capital LTP and major works projects are constructed to SC standards, prior to adoption.

Manage electrical and civil contractors and junior staff engaged on the duties listed above.

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### Working Arrangements

Somerset Council's dynamic Working Strategy will be applied to this position.

### Corporate Accountabilities

- Ensure compliance with all relevant legislation, organisational policy, and professional codes of conduct to uphold standards of best practise.
- Deliver the aims of the council's equality, diversity and inclusion policies; health, safety and wellbeing of self and others; and Organisational values in everything you do, ensuring team members are also aware of their responsibilities and maintaining their understanding that Equality and Diversity practice covers both interaction with staff, service users and communities and includes challenging discrimination and promoting equality of opportunity for all.

Date: April 2025