



Job Description

Post Title	Senior Technology and Systems Engineer
Team	Technical Assurance and Design Management – Engineering
Reports to	Head of Engineering

Purpose of the Role

The successful candidate will provide expert technical leadership across a portfolio of advanced building systems, operational technologies, and critical digital infrastructure integral to the Restoration and Renewal of the Palace of Westminster. The role ensures that systems are secure, resilient, future-ready, and coordinated within a highly complex heritage environment.

Working within the Engineering and Design Directorate, the postholder will deliver technical leadership in their field including robust engineering assurance, system integration oversight, and compliance with stringent security, safety, and operational standards.

Key Accountabilities and Responsibilities

- Lead the technical assurance of the design and integration of complex building and operational technology systems across the estate.
- Develop and maintain engineering requirements, specifications, and performance standards for relevant technologies and systems.
- Assure that system interfaces enable safe operation, reliability, and are in accordance with programme constraints and statutory obligations.
- Evaluate security risk exposure across digital building systems and ensure proportionate mitigation strategies are implemented.

Areas of technical expertise and responsibility will include:

- ICT, networks & communications infrastructure, including; IT systems architecture, cellular, mobile, radio communications, and network resilience, switching and routing, and secure mobility systems.
- Cybersecurity, including network zoning, and secure-by-design methodologies.
- Security & surveillance systems, including; physical and electronic security systems, access control, CCTV, and intrusion detection systems.
- Building services systems, including; building management and automation systems, power, data, containment, and structured cabling infrastructure, mechanical, electrical and public health (MEP) systems interfacing with digital technologies, and life safety & fire communications systems.
- Supervisory control and data acquisition (SCADA) and monitoring systems, including; architecture, resilience, alarm management, and cybersecurity, and interoperability with other critical systems.
- Broadcast, Audio & Acoustic Technology.



Key Attributes

- Strategic, proactive and rigorous approach to technology and systems engineering within the context of the built environment.
- Excellent communication skills, with the ability to communicate highly complex technical matters clearly and diplomatically to a diverse mix of stakeholders.
- Commitment to transparency, integrity, and ability to operate effectively in a collaborative problem-solving environment.
- Appreciation for heritage conservation and the ability to apply knowledge and skills to the unique demands of the Parliamentary Estate.

Skills & Experience

- Demonstrated expertise in complex building systems engineering, integration, and interface management applied within major project environments.
- Experience in assurance of technical design and construction proposals.
- Experience in operating within highly regulated or security-sensitive organisations, and/or in a heritage context.
- Experience in the migration, upgrade, or replacement of legacy systems within a live operational environment.

Key Stakeholders and Relationships

- Head of Engineering and Design & Engineering Director.
- Productive and effective relationships within the Delivery Authority and external supply chain partners.
- Build and maintain robust and ambassadorial relationships with a range of Parliamentary stakeholders, and statutory bodies.

Qualifications

- Chartered Engineer (CEng) or demonstrable progress toward chartership.
- Certifications in cybersecurity, network engineering, or broadcast systems.