

Job title	Senior Systems Engineer		
Job family	Technology, Systems & Delivery	Band	D

Job purpose

Responsible for collaborating on, and contributing to, the planning, design, implementation, integration, commissioning, test and (in some cases) operation of systems.

Key responsibilities and accountabilities

- Delivering improvements in the operating environment and ensuring alignment with the overall BBC enterprise architecture strategy.
- Key role within engineering teams in the planning, design, development, integration, commission and test of media systems.
- Contribute towards (in some cases lead on) the provision of technical advice and consultancy across a range of projects and products to shape and deliver technical production solutions.
- Work with project, product and technical leads, contractors and manufacturers to design media systems and create implementable solutions to the business' technical requirements.
- Integrate media systems with existing and new monitoring, and support tools.
- Where required, responsibilities may include elements of system operational development and support.
- Write, review and take responsibility for technical documentation as part of project and product delivery.
- Contribute to test and resolution of issues throughout the project or the product life cycle – including writing and running detailed test scripts and procedures.
- Operates processes that support the timely delivery of their maintenance, roadmaps and/or project plans.
- Oversee acceptance testing of new installations, ensuring test logs/registers are kept up to date.
- Work with system vendors and suppliers to ensure successful delivery of solutions.
- Maintain knowledge of industry and competitor developments.
- Learn new technologies and keep abreast of existing technologies and drive the introduction them where appropriate.
- Provide guidance to team members.
- Liaise with the project manager and project support staff to enable them to provide effective and informed reporting.
- Provide effective communication to stakeholders, conveying technical information to non-technical staff, either verbally or in written form.

Knowledge, skills, training and experience

Essential

- Experience assisting with the design, delivery or support of technical systems and infrastructure within a media technology environment.
- Experience assisting with systems test and handover procedures.
- Knowledge of systems engineering for key operational criteria (monitoring integration, performance testing, security considerations).
- Experience of applying new and emerging technologies within media technology projects and products.
- Motivated and organised, with the ability to manage multiple active tasks.
- Good communication (spoken, written, listening) and IT skills.
- Able to work in a dispersed and varied team, showing evidence of dealing with complex technical issues.
- Able to deliver to deadlines and demonstrate resilience to ensure the correct technical solution is selected.
- Experience translating project, user and product requirements into technical solutions.

Desirable

- Ability to write and communicate complex technology solutions in a clear and coherent way.
- Experience of operational workflows as they pertain to complex media technology systems.
- Knowledge or experience of working with media/technology tools (hardware and software).
- Some knowledge of web architecture and key technologies (Hypertext Transfer Protocol, (HTTP), Domain Naming system (DNS), distributed design).
- Knowledge of broadcast or datacentre infrastructure installations including power, environmental and space layout considerations.
- Knowledge and experience of procurement processes.
- Experience working alongside third party service delivery or support in an engineering environment.
- Experience of mentoring and supporting less experienced members of the team.
- Knowledge of how media technology systems are supported by operational engineering teams and the tools and interfaces they rely on.
- Knowledge of cloud computing disciplines (Networking as a Service (NaaS), Software as a Service (SaaS), Platform as a Service (PaaS) or Infrastructure as a Service (IaaS) and Internet Protocol (IP) technologies).

Job impact

Scope

Finance:

Responsible for the design and/or delivery of technical systems and services up to the value £250k. The post holder is responsible for maintaining project expenditure to budget and

forecast including monthly forecasting, actuals and general performance reporting.

Line management:

No line management responsibility. Regular supervision of junior members of the team and third parties/contractors.

Ad-hoc teams:

May lead ad hoc teams.

Other information

For Reward team use only

Job Code

Definition:

Content

This job description is a written statement of the essential characteristics of the job, with its principal accountabilities, incorporating a note of the skills, knowledge and experience required for a satisfactory level of performance. This is not intended to be a complete, detailed account of all aspects of the duties involved.

Appendix

There may be sub-sets of the generic job described above which require additional technical skills. This appendix to the generic job description can be developed to cover such situations.

Division	
Reports to (title)	
Location base	

Organisation structure	
<p>This role is based in the Systems Engineering Team of Content Production Workflows - Video and Live. We work flexible weekday hours - The team and the hardware is located at BBC Broadcast Centre, 201 Wood Lane, W12 7TQ</p>	

Additional job specific responsibilities and accountabilities	
<p>The technologies and systems the role will need to design, install and support are varied and ever changing in order to respond to the evolving needs of the software development team.</p> <p>This means that flexibility and the ability to quickly learn new technologies are absolutely key to this role.</p> <p>Some of your main responsibilities will be:</p> <ul style="list-style-type: none"> Driving improvements in the operating environment and ensuring alignment with the overall BBC enterprise architecture strategy A key role within engineering teams in the planning, design, development, integration, commission and test of media systems. Work with project, product and technical leads, contractors and manufacturers to design media systems and create implementable solutions to the business' technical requirements Integrate media systems with existing and new monitoring and support tools Write, review and take responsibility for technical documentation as part of project and product delivery Contribute to test and resolution of issues throughout the project or the product life cycle – including writing and running detailed test scripts and procedures Operate effective processes that support the timely delivery of their maintenance, roadmaps and/or project plans 	

Are you the right candidate?

The ideal person will be enthusiastic, hands on team player who is open to new ways of working.

Good team working and the ability to quickly adapt new technologies are absolutely key to this role!

It would be really great if you are already skilled with these:

- Building, configuration and optimization of:
- Infrastructure including Jenkins, Kubernetes, Elastic Search, Ansible, Nexus
- Linux and Windows OS including AD and server management.
- Performance metric tools to assess appropriate system design.
- Experience of using best security practices.
- Experience of IP network management

Approval	
Manager	Name and job title
HR Business Partner	Name
Date	