

Job title	Software Engineer		
Job family	Technology, Systems & Delivery	Grade	7

Job Overview

Have you ever wondered what foundations power the BBC’s online Glastonbury coverage, or the BBC’s Olympics live streams, or indeed BBC iPlayer? BBC Design & Engineering Online Production Systems provide editorial staff with web based tools to enable them to realise their visions, leading to the success and universal industry praise of those propositions which are so popular with our audiences in the UK and abroad. We are an innovative team using industry best practices and cutting edge services to shape the future of the BBC’s audience-facing online services by creating tools that are loved and valued by thousands of BBC editors, producers and journalists.

Working in a highly agile multi-disciplinary team, the successful candidate will be expected to produce enterprise level ECMAScript 6 functional style JavaScript Flux applications (using React and Redux) with thorough tests (using Enzyme and Chai) for Amazon Web Services cloud-based deployments and partake in code reviews, design meetings and innovation brainstorming sessions. The application of industry best practices such as test-driven development, continuous integration, continuous delivery, pair programming and microservices is expected in order to produce robust, scalable, reusable and sustainable systems. Keeping abreast of the latest industry and open source developments in order to bring new ideas to the table and help shape the future of BBC Design & Engineering Online Production Systems will be highly regarded.

Come join BBC Design & Engineering Online Production Systems to learn from the best and lead the rest.

Job purpose

Responsible for implementing effective software and tools for given designs.

Key responsibilities and accountabilities

- Develop effective software that meets given specifications
- Review and give feedback on others’ code
- Write appropriate tests using automated test driven techniques to ensure code quality
- Integrate the software with monitoring and support tools
- Support system integration in its operating environment
- Write and review technical documentation
- Help to troubleshoot and resolve issues throughout the product life cycle, including out of hours support for incident resolution
- Participate in the team's agile planning and delivery process
- Effectively participate in the teams software development methodologies, such as pairing, code and documentation reviewing and continuous delivery

- Learn new technologies and keep abreast of existing technologies

Knowledge, skills, training and experience

Essential

- Demonstrable experience writing and maintaining robust production software
- Competence in one or more mainstream development languages and frameworks
- Competence with one or more mainstream development and deployment tool chains (IDE, SCCS, CI)
- Knowledge of the web architecture and key technologies (HTTP, DNS, distributed design)
- Competence in test driven development and broader testing & QA concerns
- Competence in developing for operational concerns (monitoring integration, performance testing, security considerations)
- Experience of project working and professional software development processes, including agile
- Effective collaboration within a team – ability to speak up, challenge, agree and commit

Desirable

- Experience of database design and use in software applications
- Takes responsibility for driving tasks to completion
- Understanding of designing & implementing for non-functional concerns
- Worked in a professional software development environment on several projects (including experience in testing, design and release)
- Experience of releasing their software to a production use case
- Participated in reviews and inspections of code (sat with a peer or someone more senior reviewing your code)
- Software Engineering or Computer Science Degree or equivalent

Job impact

Decision Making

- Reports to Principal Software Engineer or Software Engineering Manager
- Tasks are allocated to the job holder by the team lead
- Undertakes tasks independently
- Independently writes tests to check quality of code
- Assesses feedback from reviews and incorporates as appropriate
- Troubleshoots independently or with the support of others where necessary
- Contributes to the teams iterative and collaborative design and implementation decisions

Scope

Finance: No financial responsibility

Line Management: No line management responsibility

JOB DESCRIPTION



Ad-hoc Teams:	Participates in departmental hack days and external ad-hoc events (typically 5 to 20 members)
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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	BBC Design & Engineering - Online Production Systems
Reports to (title)	Development Lead
Location base	Broadcast Centre, London W12

Organisation structure	

Approval	
Manager	Name and job title
HR Business Partner	Name
Date	