

Job title	Senior Software Engineer		
Job family	Technology, Systems & Delivery	Proposed band	D

Job purpose
Responsible for the design of software, and for implementation and operation of effective software and tools.

Key responsibilities and accountabilities
<ul style="list-style-type: none"> • Lead the design and development of effective software that meets complex product and business needs • Review and give constructive feedback on others' code • Drive work to successful completion across the immediate team • Write appropriate tests using automated test driven techniques for ensuring code quality and coverage • Integrate the software with monitoring and support tools • Ensure the teams software works in its operating environment • Write, review and take responsibility for technical documentation • Lead troubleshooting and resolution of issues throughout the product life cycle, including out of hours support for incident resolution • Participate in and lead as required, the team's agile planning and delivery process • Effectively participate in and help improve the teams software development methodologies, such as pairing, code and documentation reviewing and continuous delivery • Work with project, product and technical leads to design software and create implementable specifications and tasks at feature and component level • Work with 3rd Party ("Indies") where necessary offering direction, support and documentation • Mentor and coach more junior staff. Provide technical leadership and direction to peers and colleagues. Line Management of 1-2 software engineers (if appropriate) • Learn new technologies and keep abreast of existing technologies and help introduce them where appropriate

Knowledge, skills, training and experience
<p>Essential</p> <ul style="list-style-type: none"> • Extensive experience writing and maintaining large scale robust production software in a fast changing environment with rapid release cycles • Expertise in one or more mainstream development language/frameworks • Expertise with one or more mainstream development and deployment tool chains (IDE, SCCS, CI) • Competence in database design and use in software applications • Expertise in web architecture and key technologies (HTTP, DNS, distributed design) • Expertise in test driven development and broader testing and QA concerns • Expertise in developing for operational and non functional concerns (monitoring integration, performance testing, scale, availability and resilience, security considerations) • Extensive experience of project working and professional software development processes, including agile

- Competence in translating product requirements into technical solutions
 - Demonstrable experience in using design patterns
 - Effective leadership and collaboration inside and beyond the team. The ability to influence diverse stakeholders effectively
 - Takes responsibility for driving work to completion across the team
 - Technical Lead on at least 1 Medium/Large sized project (3 months +)
- Desirable**
- Worked on multiple projects or codebases concurrently
 - Software Engineering or computer science degree or equivalent
 - Experience of mentoring and supporting less experienced members of the team

Job impact	
Decision making	
<ul style="list-style-type: none"> • Write, review and take responsibility for technical documentation • Collaborating with stakeholders and product managers to understand business requirements and influence product requirements • Design and communicate the design of software features or components that meet business and product requirements • Leads and implements software to meet business and product requirements independently • Review others' work and give constructive feedback for improvement • Resolve operational incidents, deciding on immediate and follow up actions and improvement plans 	
Scope	
<i>Finance:</i>	<i>Responsible for headcount budget of £125k</i>
<i>Line Management:</i>	<i>Mentoring of more junior staff. Line management of 1-2 staff</i>
<i>Ad-hoc Teams:</i>	<i>Participates in ad-hoc teams with up to 30 members</i> <i>Participation in process or technology strategy working groups as SME or to represent their team/division</i> <i>Participation in cross divisional forums for improvement of share tools and practices</i> <i>Occasional participation as temporary member in another unit or department as SME</i>

Other information	
For Reward team use only	
Job Code	
Definition:	Content

JOB DESCRIPTION



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	Media Services
Reports to (title)	Software Engineering Team Lead
Location base	White City

Additional job specific responsibilities and accountabilities

Job Introduction

With 95% of the UK using the BBC every week, we're the highest reaching media provider in the UK, driven by the strength of our Broadcast portfolio across TV, Radio and Online. Beyond the UK we're building one of the world's biggest global media brands, reaching 372m people a week worldwide across TV, Radio and online.

Using cutting-edge, cloud-based technologies, Media Services is the team responsible for publishing all of the BBC's online audio and video content, powering iPlayer, BBC Sounds, News and Sport. We handle live content, "catch up", and podcasts.

Our platform handles over 13 million plays per day, every day we ingest and publish over 1000 hours of catch-up content, and publish 3-4 TB of new files. We make programmes available using a range of the latest streaming technologies, providing the best possible playback across multiple platforms and devices. All of this adds up to a high-profile, large-scale product with a fast-moving development environment.

You will join a highly Agile, fast-moving and motivated team of engineers who take pride and responsibility for the components they build and run in production. As a talented software engineer you would help us to continue to build the audio and video processing systems that power BBC online media.

The Ideal Candidate

You will have a passion for software and technical innovation, and enjoy being involved in the complete lifecycle from project scoping through to implementation, testing, live deployment and ongoing maintenance. You have the ability to rapidly acquire new software skills and to thrive in a technically complex and fast-changing environment.

You should be competent in using test driven development approaches to write clean Java code and at least one scripting language. You should be comfortable working in Unix-like environment and command line tools.

We are looking for engineers who are self motivated to design and implement solutions utilising a variety of technologies, frameworks and platforms in order to deliver industry-leading solutions. You are a team player that enjoys mentoring and working together in a

friendly environment. You should have an appreciation of BBC output and a passion for technology in the new media environment.

Role Responsibility

To design, develop and support products and services that publish the BBC's audio and video content online. This includes:

- Designing and developing software and APIs for use across the BBC using microservice architecture in the cloud
- Writing unit and integration tests, within automated test driven environments to ensure code quality.
- Effectively participate in the team's software development methodologies, such as pairing, code and documentation reviewing and continuous delivery
- Writing clear, concise and comprehensive technical documentation.
- Influencing technical decisions within team through reasoned argument
- Coach/guide/influence less experienced developers
- Keeping abreast of new technologies, which can be used to enhance the way we publish and deliver our audio and video content.