

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

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 for 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	
<p>Decision Making</p> <ul style="list-style-type: none"> • 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 <p>Scope</p> <p>Finance: No financial responsibility</p> <p>Line Management: No line management responsibility</p> <p>Ad-hoc Teams: Participates in departmental hack days and external ad-hoc events (typically 5 to 20 members)</p>	

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.

Additional job specific responsibilities and accountabilities
<p>Over the next 12 months you will:</p> <ul style="list-style-type: none"> ● Develop exciting new features for BBC Sounds ● Build out the Radio and Music infrastructure on AWS ● Learn new technologies and techniques ● Advise product managers and project managers on the complexities of planned work, including providing time and resource estimates in the planning of projects <p>Skills & Experience</p> <p>Essentials</p> <ul style="list-style-type: none"> ● Experience of writing module-based object-oriented JavaScript ● Experience of writing server-side Javascript using Node.js ● Experience of Redux, React ● Experience of building responsive websites with HTML and CSS and using an ideology of progressive enhancement ● An understanding of how to debug cross-browser compatibility issues

Approval	
Manager	Name and job title
HR Business Partner	Name
Date	