

Job title	Software Engineer, Frameworks & Tools, BBC News		
Job family	Technical Systems & Delivery	Grade	7

Job purpose
Responsible for implementing effective software and tools for given designs.

Key responsibilities and accountabilities
<ul style="list-style-type: none"> • 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
<p>Essential</p> <ul style="list-style-type: none"> • 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 <p>Desirable</p> <ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • <i>Reports to Principal Software Engineer or Software Engineering Manager</i> • <i>Tasks are allocated to the job holder by the team lead</i> • <i>Undertakes tasks independently</i> • <i>Independently writes tests to check quality of code</i> • <i>Assesses feedback from reviews and incorporates as appropriate</i> • <i>Troubleshoots independently or with the support of others where necessary</i> • <i>Contributes to the teams iterative and collaborative design and implementation decisions</i> 	
Scope	
<i>Finance:</i>	<i>No financial responsibility</i>
<i>Line Management:</i>	<i>No line management responsibility</i>
<i>Ad-hoc Teams:</i>	<i>Participates in departmental hack days and external ad-hoc events (typically 5 to 20 members)</i>

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

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	News Products & Systems, BBC Design & Engineering
Reports to (title)	Principal Software Engineer, Frameworks & Tools
Location base	New Broadcasting House, London

Organisation structure	
<p>This role reports to the Principal Software Engineer, Frameworks & Tools, News Products & Systems.</p> <p>The Principal Software Engineer, Frameworks & Tools reports to the Head of Software Engineering in News P&S. Head of Software Engineering reports to the departmental director and is part of the management team.</p>	

Additional job specific responsibilities and accountabilities
<p>BBC News is changing. We've been moving towards public Cloud infrastructure since 2012 and the next, largest phase is about to begin. And we recently announced a major expansion of the World Service, bringing our journalism to more people than ever around the world with 11 new language services.</p> <p>Our mobile apps are used by millions. Our website often gets 50 million hits in a day. We've seen higher than 1.8 million concurrent users on our site and try to support every device we can, from simpler mobile phones to connected TVs. Our broadcast output is watched and listened to by people across the country and the world.</p> <p>We make the BBC's high quality journalism possible, and we actively look for new ways to reach people and to tell stories and communicate in new and effective ways.</p> <p>We're looking for a passionate software engineer to join our Frameworks & Tools team.</p> <p>You'll be joining a small, focussed group working on reusable platform components. You will design solutions based around AWS infrastructure and will write high quality, scalable code in Ruby and Go. You'll be passionate about solid object-oriented code design, investigating emerging web technologies and building highly scalable microservices as a platform for the future of BBC News.</p> <p>Your team will own the design and build of tools and services that keep our products running well - including build and deployment tools, config management, monitoring and reporting. You'll provide capabilities as-a-service for other teams to use and be a centre of excellence for our use of Cloud technologies.</p> <p>The right candidate will be someone who is quick and keen to learn and adapt and who enjoys iterating their ideas in an agile fashion. You will be building services and tooling to support our web applications, used to deliver high quality unbiased journalism to millions people a day, in the UK and around the world.</p> <p>We're based in New Broadcasting House, near Oxford Circus, a few floors above the biggest newsroom in Europe.</p>

Approval	
Manager	Steve Wheeler, Head of Software Engineering
HR Business Partner	Kate Horton
Date	23 December 2016