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# Example of Research Software Engineer Job Description

Our company is growing rapidly and is looking for a research software engineer. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don’t fill all of the qualifications, you may still be considered depending on your level of experience.

## Responsibilities for research software engineer

* Author and maintain documentation by writing audience-appropriate materials to serve as technical and/or end-user references
* Implement changes by adhering to the change management policies and procedures for any given project to communicate to all parties the nature, significance, and risk factors of the solution
* Monitor changes and resolve complex problems requiring the highest level of technical expertise by responding as they occur, by reviewing all processing and output of the newly implemented solution, and by proactively ensuring the solution works successfully in order to satisfy the customer requirements and to provide a smooth transition to the new solution
* Provide support by investigating and resolving complex issues to ensure prompt, effective service
* Have worked on frontend development and have familiarity with backend services
* Records and updates defect logs to ensure thorough and accurate documentation
* Contributes to work sessions to gather relevant information and to ensure understanding of the problem domain
* Performs assigned functions and tasks to meet project plan
* Contributes to defining integration test specifications to conduct tests, record failures, and conduct fault diagnoses
* Contributes to the creation of build processes to produce software and to prepare tools for delivery

## Qualifications for research software engineer

* 3+ years of experience with application and system architectural design
* Experience in cross-platform development (Linux, Windows, OSX), Networking protocol development and debugging (TCP, UDP, Protocol Buffers, AMQP, tcpdump, wireshark)
* Understanding and experience in modern mobile technologies such as Android, IOS
* Bachelor of Science in Computer Science or other related field
* 1+ Years of experience Swift, iOS SDK, XCode, and, XCTest
* 1+ Years of experience with Objective-C/C++ using Cocoa Framework