

# Software Build Engineer

San Diego, California, United States  
Software and Services

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## Summary

Posted: Oct 27, 2023

Role Number:200516583

The Software Build & Integration team at Apple is at the core of the Apple software development process. We are responsible for delivering the state-of-the-art operating systems and applications to Apple customers. The role empowers build engineers to influence new feature integration into Apple software, by collaborating with engineers from Software, Hardware, Localization, QA, and Project Management teams. Software Build Engineers will have the opportunity to utilize and implement solutions using distributed computing, cloud services, and virtualization technologies to deliver Apple software to customers. This involves engineering innovative solutions for Apple's production build system in support of macOS, iOS, watchOS, tvOS, Xcode, and more!

## Key Qualifications

- macOS, iOS, or UNIX development experience.
- UNIX administration and strong software debugging skills.
- Knowledge of operating system, network, and compiler concepts.

## Description

### Job Responsibilities

Specific responsibilities include:

- \* Performing daily software builds of macOS, iOS, and its related application products
- \* Working cross functionally with teams across Apple to ship new features or products
- \* Collaborating with Apple development teams to configure project code bases
- \* Troubleshooting and resolving complex software integration issues
- \* Developing tools and processes to improve and automate workflows
- \* Enhancing and maintaining automation tools and web services
- \* Filing actionable bugs and resolving bugs efficiently

### Job Expectations

A successful build engineer will be expected to:

- \* Have excellent verbal and written communication skills
- \* Exercise critical thinking skills, anticipating the needs of others
- \* Be an independent learner, insatiably curious, and know when to ask for help
- \* Demonstrate willingness to ask for clarification and context to understand the big picture
- \* Find multiple solutions to a problem, evaluate tradeoffs, and decide the best approach
- \* Have strong coding ability and testing mindset, e.g. CI/CD, high code coverage, chaos engineering
- \* Understand, retain, and perform complex procedures
- \* Be proficient with git or other version control
- \* Develop strong UNIX debugging skills
- \* Communicate status frequently to product teams and engineering program managers
- \* Document new processes or update an existing wiki pages

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## Education & Experience

- \* Bachelors, Masters, or equivalent experience in Computer Science.

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## Additional Requirements

### Optional Experience:

Willingness to learn and master these areas:

- \* Programming in Python, JavaScript, Objective-C, or Swift
  - \* Familiarity with version control systems such as git or subversion
  - \* Proficiency with advanced text editors (Sublime, vim, emacs)
  - \* Authoring complex regular expressions
  - \* Experience with Xcode and/or Makefiles
  - \* Web systems development or web application development experience
  - \* Comfortable reading backtraces and stack traces
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At Apple, base pay is one part of our total compensation package and is determined within a range. This provides the opportunity to progress as you grow and develop within a role. The base pay range for this role is between \$125,800 and \$229,400, and your base pay will depend on your skills, qualifications, experience, and location.

Note: Apple benefit, compensation and employee stock programs are subject to eligibility requirements and other terms of the applicable plan or program.

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