

Software Reverse Engineer 1

Education-Degree:

Shall have nine (9) years of software engineering experience or a Bachelor's degree in a Computer Science, Electrical Engineering, Computer Engineering, Physics, or similar technical major, and two (2) years of software engineering experience.

Years Exp:

9 yrs + no degree

2 yrs + BS

Qualifications:

Individuals shall have three (3) years of experience coding in C and assembly in Linux, UNIX, and/or Windows, and two (2) years of experience in software reverse engineering using IDAPro or similar disassembly tool AND using WinDbg, SoftIce, gdb, or similar process debugging tool.

- Identify software vulnerabilities, develop exploits to take advantage of identified vulnerabilities, and develop production quality software based on developed exploits.
- Lead technical design of software components, and lead integration testing of software components.
- Disassemble binaries using IDAPro or a similar RE tool, and perform process level debugging using WinDbg, SoftIce, gdb, or similar debugger.
- Develop modular software components based on defined software designs.
- Use a software integrated development environment (IDE) such as Visual Studio, Eclipse, or similar IDE
- Develop and execute unit tests.
- Maintain code in a software version repository such as subversion, CVS, or similar tool.
- TCP/IP network protocols or SQL programming.
- Software compilers, operating system architecture, and/or device drivers.
- Document component designs within a High Level Design (HILD) document.
- Plan and develop component integration tests.
- Discover vulnerabilities in software without benefit of design documentation or source code.
 - Exploit software using identified vulnerabilities.
 - Develop methods to exploit identified vulnerabilities.

Position Description:

RE1 supporting RM. The key skills needed will be Linux, C, ARM assembly, generally Posix system interfaces. Experience with reverse engineering.