

**ESD ID:** ESD-16-1023

**ESD Title:** Software Engineer Level 2

**Experience:** 7 years, 3 years w/BS, 1 years w/MS

**Clearance:** TS/SCI w/FSP

**Position:** Software Engineer

**Responsible For:**

- Developing software tools for Micro Electronics Hardware Reverse Engineering areas, such as Image Processing, Data Processing, Graph Algorithms, Signal Processing, Firmware and/or formal logic systems, and/or modifying existing software to satisfy critical mission needs in a rapid timeframe
- Understanding and creating Systems Engineering Life cycle documentation including test plans, test procedures and test results.
- Identifying new innovative solutions to solve mission needs
- Using programming languages, developer tools and developer processes (i.e., C/C#/C++, MS Visual Studio and Object Oriented Design)

**Position Specific Requirements:**

- Have experience in a variety of other languages, technologies, and software frameworks including: Python, Java, JavaScript, .NET, SQL, JQuery, PL/SQL, MySQL, XML, and web-based APIs. Most common platforms include Win32/64, RHEL/Centos 5/6/7, and Windows Servers
- Are self-motivated, able to work independently, eager to learn new things as quickly as needed, and willing to work in a dynamic mission-oriented and team environment
- Have experience working with SCRUM or other agile software development processes
- Have a solid understanding of networks and network protocols (TCP/IP, IPV6 and UDP processes)

**Minimum Requirements:**

- 7+ years in software development technologies and methodology

**Desired Requirements:**

- Designing and developing multi-tier web applications using languages such as Java
- Writing design documents, test plans, and test results
- Designing and developing software and/or multi-tier web applications using programming languages to include: Java/Java EE, Swing, Hibernate, Spring, Struts, JUnit, C, C++, C#, .NET, JavaScript, ColdFusion, and Adobe Flex development tools
- Ability to develop and/or maintain software capabilities using C/C++ software development environment; Windows operating system internals, computer security, Win32 programming, Windows kernel programming, x86 assembly programming, COM programming, .NET programming, network programming (sockets), and software reverse engineering
- Developing applications utilizing software frameworks (e.g. Ozone Widgets, Spring, Hibernate, Struts, and JUnit)
- Working knowledge of Java APIs such as JDBC JPA, and EJB
- Experience with data base design and stored SQL procedures
- Ability to apply cost estimation techniques to software development, test, and maintenance efforts
- Working knowledge of and ability to assist others in the use of software engineering tool to support process improvement to include ClearCase/ClearQuest, MS Project/Primavera, Subversion, Doors, Mercurial and Minitab
- 2+ years in network analysis (data and protocols) and TCP/IP and UDP protocols

- 2+ years experience malware analysis and mitigation techniques
- Experience working with Scrum or other agile software development processes
- Knowledge of SOLR/Lucene, AJAX, JAXB, and JavaDB
- Knowledge of U124/U127, SOTF, Packet Capture, and Protocol Processing
- Working knowledge of and ability to implement IPv6 protocols