ESD ID: ESD-16-1016

ESD Title: Software Engineer Level 2

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

Clearance: TS/SCI w/FSP

Position: Rapid Prototype Developer

Responsible For:

- Developing for modifying existing software to satisfy critical mission needs in a rapid timeframe (within minutes to a week)
- Developing new analyst ideas into prototypes in short periods of time (1-10 days)
- Coming up with innovative new solutions to solve mission needs

Position Specific Requirements:

- Have experience in a variety of languages and platforms (Most common languages are Python, Java, Javascript, Bash) (Most common technologies include SQL, JQuery, XML, elasticsearch, web-bsed APIs) (Most common platforms include RHEL/Centos 5/6/7, Windows Servers, and docker containers)
- Are willing to learn new things as needed (IE OJT) and work in a dynamic mission-oriented environment.
- Are okay with sacrificing perfection for speed (IE to strive for an 80% solution that can be done ASAP rather than expending a long development effort to get the software to 99% perfection)
- Enjoy the pressure / benefits of rapid development (and near-immediate feedback on the software developed by mission elements)
- Are able to work very independently and are self-motivated
- Are able and willing to do whatever technical tasks (other than programming) to get the job done (Ex: Install an OS, reconfigure a software firewall, build a .rpm, etc.)
- Have a solid understanding of networks and network protocols Java, PHP, Python, Bash, Perl, and C/C++, C#.

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 softare and/or multi-tier web applications using programming languages to include: Java/Java EE, Swing, Hibernate, Spring, Struts, JUnit, C, C++, C#, .NET, Java Script, 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