



E&M Technologies  
4465 Northpark Drive, Suite 304  
Colorado Springs, CO 80907

**POSITION:** Level 1 Vulnerability Researcher

**Work Location:** Annapolis Junction, MD

**Required Clearance:** TS/SCI with FS Poly

**E&M Technologies, Inc.** is currently seeking a **Level 1 Vulnerability Researcher** to support a Federal government client.

The Vulnerability Researcher provides engineering and vulnerability research results related to hardware components, software applications, and operating systems to determine functionality, code structure, and system design for use in the discovery of initial access capabilities.

**Required Skills/Experience:**

- Actively debug software and troubleshoot issues with software crashes and programmatic flow
- Provide written reports, proof-of-concept code, prototypes, and hands-on demonstrations of reverse engineering and vulnerability analysis results
- Provide/author and participate in technical presentations on assigned projects
- Minimum two (2) years' experience programming in Assembly, C, C#, C++, Perl, or Python
- Minimum two (2) years demonstrated experience in either hardware or software reverse engineering

**Desired Skills/Experience:**

- Use of Unix/Windows system API's
- Understanding of virtual function tables in C++
- Heap allocation strategies and protections
- Experience with very large software projects a plus
- Kernel programming experience (WDK / Unix||Linux) a significant plus
- Hardware/Software reverse engineering, which often includes the use of tools (e.g., IDA Pro, Ghidra, Binary Ninja) to identify abstract concepts about the code flow of an application
- For Hardware reverse engineering, candidates expected to have performed analysis of embedded devices, focusing primarily on identifying the software stack and points of entry to the hardware (e.g. not interested in FPGA reverse engineering, or other circuit reverse engineering)
- Candidates who can merge low-level knowledge about compilation of C/C++ code with a nuanced understanding of system design to identify and exploit common vulnerability patterns
- Candidates should be comfortable with, at a minimum, user-mode stack-based buffer overflows, and heap-based exploitation strategies

**Required Education:**



**E&M TECHNOLOGIES, INC.**

E&M Technologies  
4465 Northpark Drive, Suite 304  
Colorado Springs, CO 80907

- Bachelor's Degree in Computer Science or related field, or minimum two (2) years' experience in computer science, information systems, or network engineering

E&M Technologies offers competitive salaries, medical benefits, and a 401k plan.

**To Apply for this Position:**

You must have the Required Qualifications in your resume to be selected as a candidate.

**Send your resume to [emtech@eandmtech.com](mailto:emtech@eandmtech.com)**

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class. U.S. Citizenship is required for most positions.