



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

POSITION: Level 2 Emulation Developer
Work Location: Annapolis Junction, MD
Required Clearance: TS/SCI with FS Poly

E&M Technologies, Inc. is currently seeking a **Level 2 Emulation Developer** to support a Federal government client.

The Emulation Developer is responsible for the design, develop, and test application software to fulfill emulation needs on Windows, Unix, or other specified platforms.

Responsibilities:

- Lead the design, development, and testing of application software to fulfill emulation needs on Windows, Unix, or other specified platforms using modern continuous integration techniques
- Lead Software and Hardware Reverse Engineering efforts to understand mechanisms of emulation target
- Debug software and hardware systems and identify divergent behavior between systems
- Understand networking and inter-component protocols and principles

Required Experience:

- Minimum five (5) years' experience programming with C, C++, or assembly,
- Minimum three (3) years' experience developing Windows applications using Visual Studio OR minimum three (3) years' experience developing UNIX applications using make files or comparable build environments OR four (4) years' experience developing software for embedded systems,
- Experience developing complex programs using C, C++, or other comparable languages,
- Experience implementing software life cycle management (requirements, design, develop, test, validate, and deploy) using modern continuous integration frameworks,
- Experience performing software or hardware reverse engineering

Desired Skills/Experience:

- Strong development skills using low level languages such as C, C++, or Assembly
- Uses source control, modern build systems, and continuous integration
- Benefits from experience with modern defensive coding practices, and with tools and techniques such as linters, Address Sanitizer, coverage-guided testing, etc.
- Ability to identify divergent behavior between emulated systems and real hardware through debugging and reverse engineering.
- Experience with BDI, JTAG, I2C, etc is beneficial
- Likewise, experience with Ghidra, IDA Pro / Hexrays, Binary Ninja (binja), radare, GDB, lldb, WinDBG, Ollydbg, or objdump is beneficial



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- Understands the principles of networking and communication protocols and can identify and understand new protocols
- Experience with any of the following activities is considered a plus: hypervisor development; FPGA development; device driver development; low-level experience in multiple operating systems and instruction sets; and previous experience developing emulators or emulation model

Required Education:

- Minimum two (2) years exercising the capabilities above employed in a commercial, government, or academic environment, OR
- Bachelor's or Master's Degree in appropriate discipline with appropriate coursework.

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

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.