

Riptronix is looking for a customer-focused team player working on-site in a mission-oriented environment. The candidate must be a self-starter, possess good communication skills, and be willing to interface with multiple teams throughout the design process.

We are currently seeking Information Assurance Hardware Design Engineers with emphasis on FPGA architecture, design, development and verification for cryptographic products. The hardware design engineer will work closely with software and system engineers to conceptualize, document, design, code, verify and lab-debug ASIC, FPGA and embedded firmware designs for cryptographic products. The ideal candidate will be adaptable, motivated, customer oriented, able to lead a small team and willing to mentor others while learning new technologies.

Qualifications:

- **Must possess an active TS/SCI Clearance with Full-Scope Polygraph**
- Assist with designing new products and processes and improving and maintaining existing products
- Communicate with the other engineering personnel to coordinate the interrelated design and assure project completion
- Conduct design analysis on components and assemblies to assist in the development process by ensuring designs are cost efficient, able to be manufactured, and reliable
- Apply FPGA place and route (P&R) tools with various libraries to create physical implementations of designs
- Design new products and processes
- Improve and maintaining existing products
- Lead the designs of new products and processes and improve and maintain existing products
- Provide technical leadership to less experienced engineers
- Perform Security Verification Testing and Certification to meet Type I Information Assurance Certification standards
- Produce security evaluation documentation to support new ASIC and FPGA designs
- Review Very High Speed Integrated Circuit (VHSIC) Hardware Description Language (VHDL) code and provide security recommendations
- Perform Security Verification Testing and Certification to meet Type I Information Assurance Certification standards
- Evaluate, review, and test security code

Other Highly Desirable Experience:

- Development of NSA TYPE 1 security products using NSA IA security practices
- Experience with VHDL, C/C++, Bash, Verilog, Tcl/TK, Mentor Graphics, GitLab
- Experience with FPGA design using Xilinx's Vivado, Microblaze Design Suite, Partial Reconfiguration, Low Voltage Differential Signaling (LVDS), and High Speed Serdes (HSS)
- Cryptographic algorithm development

- NSA Type-1 SV testing
- Python scripting

Education/Experience:

Mid-Career: Seven (7) years of experience as a hardware design engineer is required. Bachelor's degree in Electrical Engineering or Computer Engineering from an accredited college or university is required. Five (5) years of additional hardware design engineering experience may be substituted for a bachelor's degree.

Senior: Twelve (12) years of experience as hardware design engineer is required. Bachelor's degree in Electrical Engineering or Computer Engineering from an accredited college or university is required. Five (5) years of additional hardware design engineering experience may be substituted for a bachelor's degree.

About Us:

Riptronix LLC is a locally owned small business that specializes in delivering high-end engineering products and services to our customers. Our employees have a wide variety of engineering skills and talents in hardware, software and system engineering to solve the most challenging technical problems facing our customers. Our employees are detail-oriented, customer-focused, and enjoy working in a dynamic and productive team environment.

At Riptronix we want you to join the company for a mutually beneficial long-term employment relationship. We are looking for talented employees who appreciate opportunities to learn new things and to contribute their talents on multiple projects. We work closely with our customers to produce timely and often incremental solutions for many of our projects.

Riptronix offers a great work environment/culture with excellent compensation and benefits for our employees. Our benefits include employer paid medical, dental and vision insurance, 25 days of paid time off, 11 government holidays, excellent 401K (6% employer contribution and 9% profit sharing), and flexible work schedule and comp time policy. Riptronix is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability, or protected Veteran status.