



## Software Engineer - Applications Prototyping and Implementation

### Job Description

iJet Technologies, Inc. is executing upon a global strategy to successfully deliver world-class applications and connectivity solutions to the aviation industry.

This position is for a senior software engineer to develop prototype applications and model aviation software within a highly adaptable physical and virtual laboratory environment comprised of specialized communication, aviation, and computing systems, supporting iJet System concept validation, prototype development, and simulation.

### Primary Responsibilities and Expectations

- Develop prototype software in a virtual computing and communications environment with simulated components both onboard the aircraft and in corresponding ground IT environments
- Assist the team and engage in engineering analysis, trade studies, and other experiments
- Produce comprehensive reports outlining the prototype software's architecture, design, and modeling test results
- Assist in producing technical reports outlining the prototype software's architecture, design, and modeling test results
- Leverage your ability to work in a dynamic environment where requirements may be incomplete or vague to help validate and baseline system functionality
- Assist engineering in developing realistic scenarios and test mock-ups to model various functional components and exercise advanced concepts, evaluate preliminary designs, and detect potential faults and incompatibilities
- Leverage your experience in Java and C programming on specialized Linux and Windows environments
- Utilize your prior work experience with Web interfaces, SOA, Web Services, Java Message Service, and databases to provide the tools you need to design and develop prototype applications
- Apply your consultative mindset and strong communication skills to work directly with engineering and product teams, assisting in requirements gathering
- Leverage your technology knowledge, including understanding of software development methodologies, application server frameworks and database development to meet project needs most effectively
- Clearly and effectively document the software architecture and design, and communicate your design to other engineering and product teams
- Participate within a cross-functional organization to help define, improve and document laboratory development and configuration best practices, recommending tools and techniques where appropriate

## Qualifications and Requirements

- Java, C, and C++ software engineering skills
- Expert in virtual machine code development including hypervisors
- Experience with VMware based product development
- Proficient knowledge of modern IP networking
- Basic knowledge of commercial aircraft system buses
- Ability to incorporate a variety of COTS and open source software tools to quickly develop models and test algorithms, techniques, tools, and solutions
- A broad range of experience including web server and client programming, SOA, Web Services, Java Message Service, database, integration and testing, and basic requirements development
- Demonstrates a solid knowledge of professional field
- Proficient with tools, systems, processes, and procedures to accomplish work
- Experience with LabVIEW and Ballard CoPilot a plus
- Typically 12+ years of relevant experience and Bachelor's degree in Electrical Engineering or Computer Science is preferred

**Interested candidates should send resume to: [jobs@iJetonboard.com](mailto:jobs@iJetonboard.com).**

**No calls please.**