

Bestgate Engineering is an expert software and systems engineering firm, with mid- to senior-level consultants holding a history of success within the U.S Intelligence Community and Federal Government programs.

Bestgate Engineering's consultants specialize in real-time embedded systems, enterprise systems (web services, service-oriented architectures, cloud technologies), software development lifecycle (SDLC) management tools and methodologies, and information assurance systems and practices (PKI, cryptography). Their staff are skilled in using both compiled and interpreted languages, including Java (and related COTS products such as J2SE, J2EE, servlets, JSPs, Spring, Hibernate), C, C++, PHP, Python, Perl and SQL technologies, providing solutions across all computing levels – from Linux kernel module modification to presentation layer. This includes cross-platform frameworks such as Qt and Integrated Development Environments (IDEs) including Eclipse and Microsoft Visual Studio .NET. They are experienced with multiple SDLC paradigms, such as waterfall, Agile (Lean, Scrum, eXtreme Programming, Crystal, Feature-Driven Development, and Dynamic Systems Development Method), and are versed in the NSA Way. They have experience using various Software Configuration Management tools (including Clearcase, Microsoft Visual SourceSafe, CVS, SVN, Serena Dimensions, Git, Mercurial and Jazz), and Continuous Integration products (Jenkins, MKS Integrity). Other tools include static code analysis (Klocwork and cppcheck), and profiling software (valgrind). They have a history of COTS and GOTS integration and testing. They present experience using a wide range of operating systems including UNIX, Red Hat Enterprise Linux, CentOS, Ubuntu, and Microsoft Windows (95, XP, 2000, 7, CE and Mobile).

Bestgate Engineering staff has a history of successfully porting legacy systems into new architectures. This includes low-level Windows INtime to POSIX-based Linux, and converting procedural language-based systems (PL/I) to object-oriented architectures. The company has process management and control experience. This includes Control Account Management (Work Breakdown Structures (WBS), Earned Value Management (EVM), point systems, inchstones, Level of Effort, and problem escalation), Work Package Management (Time boxes, Source Lines of Code (SLOC), Problem/Change Requests, and Requirements), Technical Writing, Graphical Communication, and Requirements management (Requirements Traceability Matrix (RTM), Functional and Non-functional derivation, growth and scope monitoring, and allocation).

Bestgate Engineering brings proven technical team leadership from DOD software programs to IR&D efforts supporting systems such as Unmanned Aerial Vehicle (UAV) control software and payload integration.

Bestgate Engineering also has experience in non-DOD software-intensive programs such as medical, dental and veterinary practice management, and Medicare claims submission systems, Medicare fraud detection, real-time retail distribution control, HVAC&R sales support software, HVAC&R real-time control systems and environment and weather prediction algorithms. Bestgate Engineering has also performed research and development in the 802.11 wireless domain. This includes designing and implementing a new geolocation algorithm, IEEE Std. 802.11n-2009 dissection and analysis, and two mechanisms to perform unsolicited stimulation of 802.11 stations. Current efforts include user behavior analysis, feature selection and identification using machine learning.

The staff hold industry certifications in cloud technologies (Hadoop), programming languages (Java), software methodologies (Scrum), as well as DODD-8570 IAT and IAM compliance (CISSP, Security+).

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