

Software Development

VPAC is the perfect partner for your scientific or technically-focused software project. Our unique structure means that technically minded software developers and subject matter experts are brought together with software best practices and the latest domain knowledge to deliver successful customised solutions to real-world problems.

Industries and Research Areas

VPAC has expertise in areas spanning engineering in the aerospace and automotive industries, high performance computing in mining and exploration, information systems for the clinical health sector, and expertise in life and geospatial sciences. This diverse portfolio enables VPAC to address the needs of clients in new or unique areas of research.

Software Development Philosophy

VPAC builds software to world's best practice standards to ensure a long operational life. VPAC values open standards, maintainability, extensibility, agile development with continual client feedback and thorough testing. For maximum utility, software is supported by comprehensive documentation, sample data, tutorials and training.

Intellectual Property and Certification

VPAC has robust procedures for managing and protecting clients' intellectual property, backed by its ISO 9001 quality certification. VPAC is QMS ISO 9001:2000 certified (# A/95445) ensuring our quality management system meets international standards of excellence.

Methodologies

Grid Computing, Visualisation, Simulation, Optimisation, Process Automation, Knowledge Management, Informatics, Data Warehousing, Data Federation, Geospatial Analysis, CAD, CAE, CAM, PLM, and more.

Delivery Platforms

Enterprise solutions, highly-parallel platforms, standalone applications, web applications, database applications, plug-in frameworks, integrated scripting. Windows™, Linux, Unix, MacOS™.

Software Technologies

Java, J2EE, C/C++, C#, .NET, Mono, MPI, PETSc, SQL, SAP, XML, ASP, AJAX, Python, PHP, Ruby, Perl, SVG, VRML/X3D, OpenGL, DirectX, VTK, and more.

Technology Integration

MSC Products, UGS Products, Altair Products, MS SQL Server, PostgreSQL, Abaqus™, Fluent™, LS-Dyna™, Matlab™, Excel™, CATIA™, Rhino™, HL7, OGC Web Services, Google™ Earth/Maps, and more.

Registered Research Agency

VPAC is a Registered Research Agency (# 40150). VPAC clients may be eligible for the full 150% tax deduction for relevant R&D expenditure.

Contact

For further information on VPAC's Software Development services, please email softdev@vpac.org or visit www.vpac.org.

