

Engineering Systems



Information Technology in Engineering

Engineering design companies today are facing the challenges of providing better products and services while reducing costs and competing globally. They must improve their engineering design and quality processes, increase safety, reliability and operability while providing enhanced functionality.

The conventional business functions (Finance, HR, Sales and Marketing etc.) are well covered by a large number of IT products and services. While CADD systems and analysis software help in certain specific design functions, the effective use of IT in overall engineering processes has been adopted at a much slower rate. It is common to find important data maintained in islands of spreadsheets and word documents or simplistic and isolated solutions developed by Engineers to meet an immediate need. Much of the overall engineering process and work flow remains paper based.

In North America, the number of engineers entering the work force is steadily declining and the current baby boomer engineers are fast approaching retirement. This is forcing engineering companies to effectively manage their skills and implement knowledge management and capture initiatives.

Reviewing this situation, Imex Systems Inc. has setup a special practice for helping engineering companies to effectively address these challenges.

Imex Systems Inc., a leader in providing software, IT and related professional services and solutions to public and private sector organizations, is well placed to help engineering and design companies improve their engineering design and quality processes thereby increasing efficiency, minimizing errors and reducing paper clutter.

Why Imex Systems?

Conventional IT services firms generally specialize in common business functions and are not knowledgeable enough to understand engineering processes and effectively apply IT. Whereas Imex Systems Inc. is staffed by Professional Engineers well grounded in engineering/design functions with decades of engineering and real-time system experience.

Our Engineering Systems practice is based on extensive experience working with engineering companies in North America, Europe and Asia. This experience includes Nuclear Engineering which has its own set of challenges.

In addition, Imex Systems Inc. has extensive experience in the application of IT to a wide variety of industries and expertise in many technologies including client-server systems, web-based systems and wireless applications.

Imex Systems Inc. has partnered with technology leaders like Microsoft, Oracle, HP and IBM to leverage a wide variety of technologies for the benefit of our customers.

KEY BENEFITS

Improve Design/ Engineering Focus

Achieve Higher Productivity

Improve Performance

Minimize Errors

Shorten Project Completion Schedules

Reduce Overall Project Costs

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Services/Solutions

Our Services/Solutions include:

- Automation of engineering/design processes and workflow
- Integration of disparate engineering process/databases
- Special tools/databases for code and regulatory compliance
- Migration/upgrade of custom-made legacy design, analysis and validation software programs to current hardware/software platforms
- Electronic forms and associated engineering/design databases
- Engineering/Design team collaboration
- Engineering knowledge management
- Engineering/Design resource recruitment management
- Engineering skill/competency improvement and management
- Migration/upgrade of legacy engineering databases
- Digitization of legacy engineering drawings/documents
- Construction/Site Management
- Mobile/Wireless connectivity
- RFID use in engineering equipment/construction sites

Extensive
CANDU
Experience

Also real time software/systems for control, monitoring and safety/shutdown svstems.

Our Diverse Experience

Through our e-Government practice, we have helped several government agencies across Canada to convert their paper-based processes to electronic processes, web-enabling them to improve operational efficiency and reduce costs while providing added convenience. We bring this extensive knowledge to the engineering industry practice.

Although the core engineering expertise of Imex Systems Inc. is in nuclear and power engineering industries, Imex Systems Inc. is able to apply this engineering process knowledge to a variety of other engineering disciplines. One recent example of note is the design of a Laboratory Information Management System for engineering materials and the corresponding standards definition for a Transportation Ministry.

Our Strengths

Knowledge of Engineering / Design Processes
Expertise in Application of Information Technology in Engineering