

Galois' mission is to create trustworthiness in critical systems. We specialize in tackling real-world information assurance challenges for corporate and government clients in diverse areas such as cross-domain systems, secure collaboration & web 2.0, and communications security (COMSEC). Our world-class engineering team has deep experience in the creation and use of mathematically rigorous techniques that provide extremely high levels of software dependability. We measure our success by the extent to which we are successful in transitioning innovative research into everyday practice.

Company

At Galois, we have chosen to tackle these serious and important issues; our vision is to make dependable software a reality. It's not enough to simply generate innovative ideas and prototypes - we are committed to technology transition, meaning we actively engage with our clients and partners in order to realize the commercial potential of our R&D. We believe we will take care of our long-term growth by listening closely both to our clients and to our employees.

Offerings

Whether as a prime contractor, subcontractor, or consultant, Galois can offer a wide range of services geared to meeting customer needs for high assurance solutions. In addition, we're adept at the structuring of strategic partnerships to clear a pathway to commercialization; our business is organized to be adaptive and collaborative.

We have particular experience in the following markets:

Cross-domain solutions. The DoD/IC has an ongoing need for flexible, secure, multi-level information systems, and this need has only intensified in an era of increased operational tempos and multinational coalitions.

Secure Collaboration. Wikis, RSS, mashups; "Web 2.0" functionality is becoming ubiquitous in both commercial and government environments. There is a strong demand for collaborative software that offers cutting-edge features but doesn't sacrifice security concerns.

Communications Security (COMSEC). The nation's COMSEC infrastructure is undergoing modernization. COMSEC developers require more effective software tools to speed up the design process and ensure timely certification and rapid deployment.

Technology Transition

Recent examples of successful technology transition projects at Galois include:

ML Wiki. Galois has developed a secure, multi-level wiki technology called Tearline Wiki that provides both the collaboration features of commercial wikis and the security functionality required to operate in a cross-domain environment. Users at different domains see a consolidated view of the information they are authorized for and can edit and add to information at their own level.

Cryptol™ Assurance Suite. Cryptol is a domain-specific language that makes it easy to specify a cryptographic algorithm in and then compiles the specification into VHDL, an industry-standard chip layout language. This ensures a clean, direct path from the designer's intentions to its final implementation in hardware, as well as a compelling assurance argument.

Trusted Services Engine (TSE). Addressing the Navy's requirement for a high assurance, multi-level file store, Galois has developed the TSE (Trusted Services Engine), a device that enables users to edit documents at their level and to read down to files at lower classification levels. The TSE has been designed to be evaluated at EAL6+, with a formal proof that the secure read-down policy will be enforced by the system.

Year Founded

1999

Industry

Assurance innovation

Company Ownership

Privately held

Staff

25 Technical Staff

4 Client Services Staff

6 Operations Staff

Laura McKinney, CEO

John Launchbury, Chief Scientist

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Core Principles

Cherish learning and innovation

Hold to authenticity

Pursue deep trust

Serve as stewards