



Position description

ITEGA lead technology architect

The Information Trust Exchange Governing Association (ITEGA) seeks a consulting lead technology architect to identify, explore and recommend available technologies, and to execute a Proof of Concept implementation of a distributed user-profile management system for publishers serving the ITE's [mission](#).

The POC implementation will:

- Function with client-side tracking-protection tools (such as Privacy Badger and Disconnect) installed
- Share a prototype extensible user-attribute schema.
- Demonstrate the exchange of specific attributes among publishing partners governed by user privacy requirements and preferences.
- Demonstrate the internal logging of user actions across a network
- Show application of user identity and preference attributes in one or more end-user applications involving personalization of content or advertising.

The lead architect must have open-source communication skills and knowledge appropriate to integration with an open-source project such as those managed by the Apache Software Foundation. Ideally they have experience as a full-stack lead developer. They will be fluent with programming languages and services used in the selected technologies, including, potentially:

- [REST](#) services
- Setting up and using [ElasticSearch](#)
- Intermediate or advanced knowledge of the programming language used by server-side tools appropriate to the ITEGA (for example, Java for Apache Unomi)
- System administration skills including installing and configuring Linux, installing packages, working with virtual machines, networking, running backups
- Knowledge of browser-based integration testing (such as Selenium)
- Proficiency in JavaScript
- Working knowledge of Git
- Ability to write clear commit messages, mailing list postings, and reference documentation

The lead developer will report the Executive Director of the Information Trust Exchange project and be advised by a multi-member volunteer Technology Task Group of the ITE project. The Information Trust Exchange has been a project of the [Donald W. Reynolds Journalism Institute](#) at the University of Missouri with consulting advice from Mozilla. It is transitioning to operation as an independent 501(c)3, the Information Trust Exchange Governing Association. The developer can work from their present location but principals should be prepared for occasional travel. For details, contact Bill Densmore, ITE project director, at 617-448-6600 or wpdensmore@gmail.com