

JOB DESCRIPTION

TITLE Scientific Information System (SIS) Developer and Maintainer

REPORTS TO Information Architect

STATUS Administrative Staff, exempt, full-time (37.5 hours/week)

JOB SUMMARY

Santa Fe Institute (www.santafe.edu) has developed and deployed the initial stages of an Institute-wide Scientific Information System (SIS), which will function as scientific document repository and web-based publishing system for the Institute's scientific output, as well as a content management system (CMS) and shared calendaring system for the Institute's administrative and operational activities. The SIS Developer and Maintainer will: (a) play a key role in the continued development and implementation of the SIS system, while (b) serving as one of the major links with the Institute's scientific and administrative staff to develop and incorporate new SIS content, and (c) serving as a key link to the Institute's Information Technology (IT) department to ensure integration of the SIS system with server hardware and other IT infrastructure.

JOB REQUIREMENTS

The successful candidate will have a B.S. in Computer Science or equivalent training and experience, a minimum of 5 years of application development experience, and a working knowledge of XML, XSLT, PHP, and JavaScript. Application development experience with Java and related technologies (Spring, Hibernate, etc) in a Unix/Linux environment strongly preferred. Experience with CMS products (Alfresco, Drupal, Joomla, Documentum, etc) and databases a plus. The successful candidate will have a proven track record working as a member of a software development team.

In addition to the above the candidate must be willing to carry out assigned responsibilities in case of an emergency and have the ability to lift up to 40 pounds.

JOB RESPONSIBILITIES

The SIS Developer and Maintainer will assist the Information Architect in developing and implementing technical solutions to extend SFI content management and dissemination capabilities.

Specific responsibilities include but are not limited to:

- Develop applications that extend the functionality of the Scientific Information System.
- Maintain and extend SFI community portals (Business Network, Alumni, International Program) and ensure proper integration with SIS core capabilities.
- Implement JBPL-based workflows to streamline and improve SFI business processes.
- Develop methods and applications to migrate SFI content into SIS.
- Contribute to the development of SIS search capabilities.
- Develop the dynamic publishing and content re-use capabilities of SIS.
- Create models of SFI content using XML Schema Definition (XSD).
- Extend and customize the SIS web-client.

Like all IT-related positions at the Institute, the SIS Developer and Maintainer will be required to cross-train on other IT functions in order to help cover absences and to share heavy workloads as needed.

The Institute is a relatively small and lean organization in general and the ability to shift duties and responsibilities as needed is essential for institutional success.

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