Duke University School of Nursing
HR Title: **Analyst Programmer II**
Working Title: **Analyst Programmer II**
Job Code: **1040**
Job Level: **80**
Updated: **September 15, 2022**

General Purpose

The Analyst Programmer II will analyze specific features of TAMS and other software development internally to triage and fix bugs, create automated unit tests, document as needed and implement new functionality as directed by team leaders. This requires adherence to strict Service Lifecycle processes and working with various teams to manage, document and operationalize minor and major product releases. The role will develop in a variety of leading-edge development technologies and tools while following best secure coding practices. In addition, this role may involve working with outside contractors for special projects.

Supervisor

This position reports to the Director of Software Development.

Essential Duties

1. Provide first-line triage, technical analysis, recommendations and software development for all identified and assigned issues in TAMS and other software developed internally by School of Nursing programming staff. This requires following standard Service Lifecycle processes including reproducing and documenting all bugs, resolving as needed with required Sr. code review and escalating as needed.
2. Develop new TAMS features as directed and assigned. This includes single-feature development, updates to existing functionality, minor UI changes and updates to reports/screens. These feature requests require full technical documentation including automated tests where needed.
3. Under direction of senior technical staff, expand automated test coverage in codebase.
4. Work with senior development staff ito implement support for in-house and contractor-developed software solutions to assure smooth, professional and cost-effective operation of the School of Nursing. Develop and recommend information systems policies and procedures. Assist the TAMS operations and infrastructure staff to coordinate manual testing, upgrades and system enhancement projects.
5. Participate in the strategic planning, priority setting and formulation of business plans for implementing TAMS and all other software developed within the School of Nursing. Keep management abreast of applicable developments in the information systems field.
6. Where assigned, work with contractors and outside development resources.
7. Work with senior development team members and School of Nursing faculty and staff to assess business processes and requirements in order to define technical goals and needs.

a. Review and understand open source and third party applications that may meet faculty and staff needs.
b. Provide comparison and recommendations regarding implementation and/or purchase of software and hardware systems.
c. Consult with departments regarding methods of streamlining business processes using new and existing technologies.

8. For information systems under direct control: Author, implement, execute, and periodically update System Security, Business Continuity and Disaster Recovery Plans to be consistent with Duke Medicine policies and standards regarding security and HIPAA compliance. For information systems that are not under direct control, but impact the security of an information system for which are controlled, ensure that an OLA is executed.
    a. Research and remediate security vulnerabilities in cooperation with infrastructure and other development personnel.

Requirements

Work requires a Bachelor's degree in mathematics, computer science or equivalent coursework or technical training.

Work requires three years of related programming and analytical experience with knowledge of several of the relevant technologies.

OR AN EQUIVALENT COMBINATION OF RELEVANT EDUCATION AND/OR EXPERIENCE

Skills

- Strong written and verbal communication skills
- Proficiency in web development technologies, including (X)HTML, CSS, JavaScript.
- High profiency in javascript.
- Experience in web applications development and maintenance to include database development in a SQL-based DBMS.
- Experience with consuming data via web-based technologies (RSS, XML, REST).
- Experience with version control and deployment procedures.
- Understanding of middleware applications including web and database servers.
- Ability to learn new technologies quickly and eagerly.