



Position Description

DATE: March 2026

POSITION TITLE: Senior Full Stack Engineer

CLASSIFICATION: Exempt

SUPERVISES: May supervise one or more direct reports as assigned

Summary:

The Senior Full Stack Engineer designs, builds, tests, and maintains secure web applications and APIs that support clinical research operations and reporting. This role partners closely with research staff, senior leadership, and other engineers to deliver reliable, maintainable software. The position emphasizes end-to-end ownership, strong engineering fundamentals, and a commitment to documentation, quality, and continuous improvement. The Senior Full Stack Engineer will participate in development decisions, contribute to architectural decisions, and provide technical guidance and support to other engineers.

The duties listed below represent the essential functions of the position, with or without reasonable accommodation.

Duties and Responsibilities:

- Design, develop, and implement end-to-end features across the web application stack, including user interfaces, backend, and data layers.
- Build and maintain TypeScript-based front-end applications using Angular, React, or an equivalent modern framework.
- Develop and maintain C#.NET REST APIs, including authentication and authorization patterns.
- Collaborate with stakeholders to translate business and research needs into technical designs, estimates, and incremental delivery plans.
- Create, review, and evolve database schemas, queries, and data access layers; write and optimize SQL as needed.
- Implement role-based access control, auditability, and secure handling of sensitive and regulated data.
- Write unit tests and integration tests; contribute to automated testing pipelines and quality gates.
- Participate in code reviews, enforce coding standards, and mentor peers on design and implementation approaches.
- Improve and maintain CI/CD pipelines, including build automation, deployments, and environment configuration.

- Develop systems with logging and monitoring; investigate defects and performance issues, and complete root-cause analysis for significant incidents.
- Produce clear technical documentation for features, integrations, and operational support.
- Use approved AI-assisted development tools in accordance with organizational security requirements and policies, when applicable.
- Perform other duties as assigned.

Skills, Knowledge, and Abilities May Include:

- Strong experience with TypeScript and a modern front-end framework.
- Strong experience building REST APIs with C#/ .NET (or equivalent back-end stack with demonstrated ability to ramp quickly to .NET).
- Experience with relational databases (SQL Server preferred) including schema design and query optimization.
- Demonstrated ability to write automated tests (unit/integration) and work within CI/CD pipelines.
- Strong understanding of secure coding practices, authentication/authorization concepts, and least-privilege access.
- Proficiency with Git-based workflows and collaborative code review.
- Excellent written and verbal communication skills and ability to work effectively with cross-functional teams.
- Ability to work independently, prioritize work, and take ownership of deliverables.
- Maintain confidentiality and comply with applicable organizational policies and regulatory requirements.

Education and Experience:

- Bachelor's degree in computer science, Software Engineering, or a related field, or equivalent practical experience.
- 5+ years of professional software development experience delivering production systems.

Work Environment:

This position operates in a professional office and/or remote (home-based) work environment. The role routinely uses standard computer-based equipment such as computers, monitors, keyboards, telecommunication tools (e.g., phone, video conferencing, and secure electronic fax tools such as Sfax), and related technology.

Some positions may require periodic in-person attendance or travel based on organizational or project needs.

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to remain in a stationary position for extended periods (sitting and/or standing) and operate a computer and other standard office equipment. The employee frequently uses hands and fingers for keyboarding and handling documents or other work materials.

The employee must be able to communicate effectively and exchange accurate information with others, including through phone, video, and in-person meetings. The employee may occasionally be required to move or lift items up to 25 pounds, consistent with role and business needs.

This role requires the ability to view and interpret information on a computer screen and in written materials for extended periods, with or without reasonable accommodation.

Position Type/Expected Hours of Work:

This is a full-time position. The regular work schedule is Monday through Friday. Core hours are generally 8 a.m. to 5 p.m. Eastern time (ET). Work hours may be adjusted for employees in other time zones or to meet operational needs, with supervisor approval, to ensure appropriate coverage and collaboration. Occasional additional hours may be required.

Equal Employment Opportunity:

Jaeb Center for Health Research provides equal employment opportunities to all employees and applicants without regard to race, color, religion, sex (including pregnancy, sexual orientation, or gender identity), national origin, age, disability, genetic information, veteran status, or any other status protected by applicable law.

Reasonable accommodations are available for qualified individuals with disabilities. Applicants or employees who need an accommodation to perform the essential functions of the job may contact Human Resources.

Note: This job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.