



Optimal Technologies International Inc. is expanding to become the leader in innovative grid optimization and building automation technologies. Optimal Technologies (US) Inc., a subsidiary of Optimal Technologies International Inc., is seeking experienced professionals with exceptional backgrounds in the design, and implementation of complex optimization, software and hardware systems.

This is an opportunity to be a part of a world-class team in an exciting and extraordinary time of Optimal's growth.

Position: **Senior Developer, AEMPFAST Engine**

This is a salaried full time position.

Responsibilities: Responsible for developing and maintaining JNI and C++ code components inside AEMPFAST product.

- Work with Power System Engineers to design, specify and implement changes to algorithmic solvers.
- Act as a mentor and trainer in C++ to Power System Engineers and other AEMPFAST developers.
- Work with Java programmers to design, specify and implement JNI code.
- Transform functional specifications into design specifications.
- Act as technical and/or project leader for small well-defined projects.
- Work on the API and GUI portion of the AEMPFAST code, as required.
- Maintain a high quality of code.
- Ensure coding standards are followed.
- Ensure proper unit testing is performed by all programmers.
- Work with QA team to develop integrated and functional tests.

Location: Research Triangle Park Area, North Carolina

Compensation: Excellent compensation and benefit plan including participation in bonus, stock option, and stock ownership plans. Compensation is based on experience and performance.

Minimum Qualifications:

- University degree in Computer Science or similar.
- Significant (5+ years) experience in C++ software development.
- Strong knowledge of C++ template library.
- Familiar with Eclipse's plugin architecture and CDT.
- Experience (2+ years) using Java SDK.
- Familiar with unit testing.

- Excellent verbal and written communication skills to interact with other stakeholders and other project programmers.
- Outgoing personality; able to work well with other people.
- Passionate about code and design.

Candidates with the following qualifications will be given special consideration:

- A postgraduate degree in Computer Science or equivalent.
- Developing or using numerical algorithm packages.
- Working knowledge of linear algebra and sparse matrices.
- Java 6 experience.
- Experience using JNI would be a plus.

Optimal Technologies is interested in inquiries and submittals from qualified candidates for this position. Please send inquiries, resumes, and salary requirements in Adobe Acrobat (pdf) format to aempfast-careers@otii.com