



340-136 Market Ave, Winnipeg, MB R3B 0P4

Cloud Solutions Developer at CEMWorks Inc.

We seek a new member of the Research & Development team to facilitate cloud development and deployment of our computational physics solutions in the area of electromagnetics. The ideal candidate is interested in creating scalable solutions and convenient front/back-end interfaces, as well as the best practices for the design of modular and testable software architecture.

At CEMWorks, we strive to enable accurate electromagnetic simulations for the upcoming smart cities, autonomous self-driving cars, 5G networks, and new generations of computer chip interconnects. This ambitious goal requires us to build a team of the most talented professionals who enjoy the opportunity to work in the challenging and very rewarding environment of large-scale numerical simulations.

Writing code and performing extensive testing will constitute a major part of the job. The new team member is also expected to participate in code testing/ validation, fixing software errors and present the work results in a form of technical reports, presentations, and whitepapers.

Responsibilities

- Design and develop new components in Python/JavaScript for the existing cloud solution architecture and propose improvements for performance and maintainability
- Facilitate cloud solutions deployment withing CI/CD environment
- Write well-designed, testable code, participate in the development of web-based interface
- Prepare software documentation according to company's standards
- Perform and do basic analysis of numerical simulations on the benchmark suites

Required Qualifications

- B.Sc. degree in Computer Science, Computer Engineering, or Science/IT related field or equivalent experience in writing code for scientific computing
- Experience in front-end and back-end web development
- Strong command of Python and JavaScript and desire to write beautiful and efficient code using design patterns and object-oriented programming
- Familiarity with Docker/Django/PostgreSQL/RabbitMQ/Celery stack or some analogues
- Basic understanding of cloud computing principles
- Confident usage of *nix systems and exposure to version control systems (GIT)

Desired Skills and Qualifications

- Strong math background and familiarity with C/C++
- Experience with CAD tools and physics simulations using numerical methods
- Experience working in HPC clusters and/or Amazon EC2 cloud

Why CEMWorks

- Opportunity to join a cutting-edge industry in a growing company in Winnipeg, MB, Canada
- Supportive and flexible work environment with competitive compensation

If you are interested in this position and meet the above criteria, please send your resume in confidence directly to jobs@cemworks.com. We thank all applicants; however, only those selected for an interview will be contacted.