



920-201 Portage Ave
Winnipeg, MB R3B 3K6

Finite Element Developer at CEMWorks Inc.

CEMWorks is looking for a Finite Element Developer to join our team to support the development of cutting-edge electromagnetic (EM) simulation software.

We enable innovators to deliver transformational products to their customers, by delivering innovative simulation solutions to solve the most complex design challenges for the next generation IoT, autonomous vehicles, and mmWave/5G/6G technologies.

The Finite Element Developer will work with a team of computational scientists to test revolutionary and well-established concepts, solution of electromagnetics & multiphysics challenges.

If you are a strong coder and have a general background in finite element method (FEM), we want to meet you!

Responsibilities

- Writing code to test novel and well-established concepts for fast and accurate solution of EM & multiphysics challenges
- Design, deployment, testing, documentation and maintenance of software components and sub-systems
- Investigation of product problems, develop and implement solutions
- Works under the general supervision of the project leader

Must-have Qualifications

- M.Sc. degree in a quantitative research field (engineering, computational physics, mathematics, computer science, etc.)
- Deep knowledge of finite element methods (FEM)
- Demonstrated ability in implementing complex algorithms and numerical methods
- Proficiency in software development using C++
- Experience with Linux/Unix
- Ability to learn quickly and to collaborate with others

Preferred Qualifications

- Ph.D. degree in a quantitative research field
- Familiarity with adaptive mesh refinement for FEM
- Familiarity with electromagnetic theory
- Experience using CAD software
- Experience implementing and using multiphysics simulators
- Familiarity with 3-D modeling and meshing algorithms

Why CEMWorks

At CEMWorks you will work with some of the sharpest minds and some of the most prestigious, well-known companies in the industry. We pride in having a responsive and supportive work environment, where every team member thrives and is a vital contributor to the company's



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success. We are committed to maintaining a culture of inclusion, offer a flexible work environment and industry-competitive compensation.

CEMWorks is an Equal Opportunity Employer. We thank all applicants; however, only those qualified for this role will be contacted.

CEMWorks does not accept unsolicited referrals for vacancies. Any unsolicited referral will become the property of CEMWorks and upon hire, no fee will be owed to the agency, person, or entity.

Apply by email to jobs@cemworks.com