

Senior Software Architect for numerical software

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Plaxis has vast experience in the development of advanced numerical finite element software, which is proven by its current standing on the geotechnical software market. The software is robust, efficient and user-friendly, and adapted to the special requirements in geo-engineering and design.

To further strengthen its position in the future, the Plaxis calculation kernel is regularly updated to comply with the best modern software development practices. This process is aimed at enabling good readability of the code, fast development, flexible extension, optimum interoperability and adequate documentation, while maintaining its robustness and reliability.

Job description

As a senior software architect you will (co-) design and supervise the implementation of the newest versions of the Plaxis calculation kernel making use of object oriented programming techniques, C++ and existing FE libraries. You will develop the structure of the program and assure that the contributions of your colleagues to the kernel will be in line with the chosen structure. You will assure this in a coaching manner.

High level of modularity, interoperability with various FE libraries and programs, possibility for rigorous testing, extensibility with technologies like distributed/parallel/GPU computing and other (non FE) numerical methods are key elements in this job.

Requirements

Essential qualifications:

- MSC in computer science, applied mathematics or engineering or proven equivalent experience
- Solid knowledge of OOP using C++
- Experience with design and development of medium to large numerical software projects for practical application (10⁵ lines of code)
- Knowledge of full software development cycle
- Thorough understanding of all aspects of the finite element method (linear and nonlinear)
- Team player

Desired qualifications:

- PhD degree or other post-graduate academic experience
- Knowledge of design patterns
- Affinity with civil engineering applications

Benefits of working at Plaxis:

- Challenging and creative work
- Market conform salary and secondary benefits
- Stimulating cooperative work environment
- Working on world-wide leading software product

How to apply

Send a letter, fax or e-mail to the attention of Dr. Ronald Brinkgreve including a job application letter and your resume (CV) to the contact information below.

Contact

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