

## POSTDOC POSITION IN COMPUTATIONAL MATH

ECOLE POLYTECHNIQUE DE BRUXELLES

BRUSSELS, BELGIUM

### Job description

A 2 year postdoc position is open at Ecole Polytechnique de Bruxelles ([Université Libre de Bruxelles](https://www.ulb.be/), Belgium) within the Numerical Analysis Group lead by [Yvan Notay](#) and [Artem Napov](#).

Research are to be conducted within the framework of the (H2020 founded) Energy oriented Centre of Excellence in computing applications ([EoCoE](#)). This initiative aims at porting towards exascale some of the biggest European simulation codes in the domain of energy. The Numerical Analysis Group contributes with the linear system solver AGMG ([agmg.eu](https://agmg.eu)), which is integrated in several of the EoCoE application codes. The successful candidate will work both on the improvement of the integration of AGMG in these codes, and on the improvement of its core performance on extreme scale architectures.

AGMG is a linear system solver based on algebraic multigrid, using some unique features that allow it to be world leader in its category (see [here](#) and [here](#) for sample of performance). Altogether, publications related to AGMG have attracted more than 800 citations. Entering the team represents a unique opportunity to work on a cutting edge project mixing numerical mathematics and HPC programming.

Brussels, Capital of Europe, is one of the most international cities in the world. It offers a rich cultural life and many opportunities (including a big forest not far from the campus). Official languages are French and Dutch, but English is spoken almost everywhere. Amazingly, the housing cost is significantly lower than in many other European capitals.

The position offers:

- Monthly salary: 2421 EUR net of taxes (indexed on a regular basis and including health care benefits).
- Up-to-date working environment with access to the biggest European High Performance Computers.
- Possibility to visit international partners involved in the project, and also international conferences.

## Profile

Candidates should hold a PhD in numerical mathematics, computational mathematics, computational physics or related discipline, with a strong background in HPC programming. Knowledge of Cuda and/or experience with parallel programming (MPI, OpenMP) is a plus.

## Interested ?

The starting date is January 1, 2019, or later in 2019, according to successful candidate availability.

The position will remain open until it is filled.

To apply, send by email to Yvan Notay ([ynotay@ulb.ac.be](mailto:ynotay@ulb.ac.be)):

- a letter of motivation;
- a full CV;
- the coordinates (including email and telephone) of a reference person willing to inform about candidate professional skills;
- appropriate link(s) to the full text of the PhD thesis and of relevant publication(s);
- a copy of the official report with Thesis appraisal by the Jury (e.g., "rapport de soutenance" in France), if relevant.