Doctoral Researcher in Computational Mechanics

The University of Luxembourg (UL) invites applications for the position of a Doctoral Researcher (PhD candidate) in *Computational Mechanics*. The successful applicant is expected to perform original research in the area of advanced **computational solid/structural mechanics** with applications in civil and/or mechanical engineering and to contribute to associated teaching activities in the department's bachelor and master programmes. You will be working in the research team on Mechanics and Structural Analysis led by Prof. Dr. Andreas Zilian at the Department of Engineering.

Potential areas of your future research could include – but are not limited to – ageing and degradation of concrete structures, novel techniques for finite strain elasto-plasticity of continua, advanced models and discretisation strategies for shell structures. Depending on your background and PhD research specialisation you will be trained in the programme *Engineering Sciences* or the programme *Complex Systems Science* of the faculty's doctoral school.

- Fixed-term contract, 36 months (extendable by 12 months), full-time (40 h/week), annual gross salary of 40,952 EUR
- Earliest start date summer 2024, student and employee status

Your profile

- Master's degree in Civil Engineering / Computational Mechanics
- Profound knowledge of engineering mechanics, structural analysis & finite element methods
- Familiar with Python programming, TeX-based documentation and associated software environments; Experience with the FEniCS framework is an asset
- Good English language skills (minimum certified B2 level, C1 level is a plus)
- Willingness to work in a multilingual and international environment
- Ability to work independently and as part of a team.

We offer

- A dynamic and well-equipped research environment
- Intensive training in scientific and transferable skills, participation in courses, conferences and workshops
- Personal work space at the University of Luxembourg.

Your tasks

- Manage and drive forward your PhD research project
- Attend doctoral school courses, trainings and events
- Disseminate your results at conferences and seminars
- Author scientific articles and your PhD thesis
- Contribute to teaching, supervision of student projects

Gender policy: UL strives to increase the proportion of female researchers in its faculties. Therefore, we explicitly encourage women to apply.

Application submission: Before proceeding with the submission of your application, please prepare the following documents.

- Curriculum vitae (maximum two pages)
- Motivation letter (maximum one page) detailing how you meet the selection criteria
- Doctoral research statement (maximum two pages) outlining your scientific interests
- Publication list (if any) and PDFs of those publications
- Master's thesis (final or draft; if draft, then state the expected submission date)
- Copies of diplomas, transcripts with grades, with English, French or German translation

http://emea3.mrted.ly/3mhrj

All documents should be uploaded in PDF format via the UL online submission system (`recruitment.uni.lu`) until *15 April 2024*. Early submission is strongly encouraged; applications will be processed upon arrival. Please note that incomplete applications as well as applications sent by e-mail will not be considered.

Selection process: Candidates will be shortlisted based on the criteria detailed above. Shortlisted candidates will be invited for an interview and/or interviewed by phone.

Research work in Luxembourg: Please see the Foreign Researcher's Guide to Luxembourg for more information on research employment in Luxembourg and the procedures that apply.

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