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Full-time academic position in

**construction materials for durable and sustainable structures (24/2020)**  
**(Starting 01/10/2013)**

The Department of Civil Engineering of KU Leuven invites applications for a full-time academic position in the area of construction materials for durable and sustainable structures, with focus on the durability of new and ancient construction materials (binders, mortars, concrete,...), building components and structures. We are looking for a dynamic and motivated person (m/f) with an excellent research record, who is able to teach courses related to building materials and building technology.

**DUTIES INCLUDE**

*Research*

The department seeks a person with expertise in understanding the short and long term properties of new and ancient construction materials. He/she should be able to relate these property changes to the durability of new and ancient construction materials, building components and structures. The successful candidate should also contribute to the development of innovative sustainable construction materials, considering the present shift towards the use of waste materials. He/she should be able to analyse construction materials' properties and their changes, using experimental techniques such as XRD, Thermal Analysis, FTIR,... He/she should also be able to develop and use mathematical, conceptual, and/or numerical models to describe and predict relevant short and long term material properties (e.g. multi-scale analysis, constitutive modelling, fracture and damage mechanics,...).

The successful candidate will have access to facilities for advanced material testing, to testing equipment for building components and to high performance computing. He/she will support and further expand national and international research collaborations of the Department of Civil Engineering. In addition, he/she will be expected to develop an excellent research program and to achieve scientific output that adheres to the highest international standards.

*Teaching*

The successful candidate will take on teaching responsibilities in the Bachelor and Master of Science in Civil Engineering and in the Bachelor and Master of Science in Engineering: Architecture, and may also be involved in the Master of Science in Conservation of Monuments and Sites. He/she is expected to meet KU Leuven's standards regarding academic program level and orientation and to adhere to KU Leuven's educational concept. Commitment to high quality education is also understood.

*Service*

In addition to the research and teaching duties, candidates are willing to perform more applied research projects in collaboration with government and industry.



## QUALIFICATIONS

Interested candidates should hold a PhD or doctoral degree in Engineering.

Qualified candidates are expected to have an excellent research record and good teaching and training skills, in order to contribute to the research output of the Department of Civil Engineering and to the quality of its educational program. The high quality of the candidate's research should be evidenced by publications in international peer reviewed journals. International research experience as well as collaboration experience with the construction sector are highly appreciated.

At KU Leuven the main teaching language is Dutch. The successful candidate who is not proficient in Dutch will be provided language training in order to be able to also teach in Dutch within three years time. Proficiency in English is expected from all applicants.

The appointment will be made at the rank of assistant professor or higher, depending on the candidate's qualifications.

The KU Leuven pursues a policy of equal opportunity and diversity.

**Contact person:** Prof. Geert Degrande, head of the department, [geert.degrande@bwk.kuleuven.be](mailto:geert.degrande@bwk.kuleuven.be).

**Deadline for on-line application is 14/03/2013.**

Should you encounter any problems with the electronic registration, please contact Katoe Buyle, e-mail: [katoe.buyle@pers.kuleuven.be](mailto:katoe.buyle@pers.kuleuven.be), tel.: +32 (0)16 328 324.