In the Science, Engineering and Technology Group of KU Leuven, Faculty of Engineering Science, Department of Civil Engineering there is a full-time academic vacancy in the field of resilient concrete structures. We are looking for internationally oriented candidates with an excellent research track record and with proven educational skills in the field of resilient reinforced and/or pre-stressed concrete structures and components. The full-time academic vacancy on ‘resilient concrete structures’ is targeted, to address design, reliability based analysis and assessment of concrete structures and components that are subjected to man-made and natural hazards. This position integrates structural aspects with overall sustainability aspects and with reliability based design, considering the use of cementitious composites with improved mechanical performance. It aims to contribute to improving engineering applications in the construction industry taking on board the challenges of the 21st Century. The position will be integrated in the Building Materials and Building Technology Section,
which is embedded in the Department of Civil Engineering of the Faculty of Engineering Science. In the past, the faculty has systematically been given a high ranking for research and education quality by independent accreditation committees. The research section has an extensive national and international network, both in the academic and business world in the field of the development of novel and sustainable building materials and structural components, of structural optimization, and of retrofitting and conservation of historical buildings. The section aims at responding to the current and future needs of the construction sector and of society, in which resource management and resilient structures pose important issues for a sustainable built environment considering - amongst others - the flux of raw and recycled materials. In addition, the maintenance and upgrade of existing buildings and of infrastructure are seen as important resources for sustainability. Particular interest exists in the integration of low-carbon construction materials and heritage buildings in sustainable management of the built environment. The research section seeks to further develop innovative research dealing with structural assessment and design of resilient concrete structures closely connected to the development of innovative reinforcement and concrete technology. The current lab facilities include testing facilities for large structural elements, a cement and a chemistry laboratory. Recently a ‘NDT and durability’ laboratory has been installed. The section collaborates with the other sections within the department as well as with other departments (Department of Architecture, Department of Earth and Environmental Sciences, Department of Materials Engineering, …) within KU Leuven. It can furthermore build upon an extensive national and international network, upon connections with public authorities, companies and non-profit organisations. It attracts highly talented PhD students and it can profit of the KU Leuven supportive work environment.

DUTIES
Research
You develop a research programme at the highest international level on the structural assessment and design of resilient concrete structures closely connected to the development of innovative reinforcement and concrete technologies; you combine experimental, numerical and design approaches. You strengthen existing research lines and provide additional expertise. You set up collaborations within and outside of the department in close consultation with the members of the research section. You support national and international collaborations of the research section and help to promote and further develop these. You are capable of acquiring competitive funding. You strive for excellence in your research and provide a contribution to the continued development of the research section and the department. You publish at the highest scientific level, acquire resources for fundamental and applied research, develop international collaborations and supervise PhDs at a high international level.
Education
Although the position regards a research professorship at the start of employment, the candidate is expected to gradually contribute to state of the art teaching.
You also contribute to the pedagogic project of the faculty/university. You develop your teaching in accordance with KU Leuven’s vision on activating and researched-based education and make use of the possibilities for the educational professionalization offered by the faculty and the university.
You ensure high-quality education within the area of concrete design, with a clear commitment to the quality of the programme as a whole.
Your teaching duties include teaching to civil engineering and architectural-engineering students at the bachelor and master level. Specific insight in and experience with the integration of education and research within a design and analysis context could be a great asset to improve synergy between research and teaching.

Service
You are prepared to provide scientific, social and internal services in concertation with your colleagues through international networks, connections with public authorities, companies and non-profit organisations.
You stay up-to-date with the evolving construction practices and with needs related to your field of research and teaching.

Requirements
You have a master degree in civil or architectural engineering or relevant similar degree, and a PhD within the requested research and educational field.
You have a strong research profile and an indisputable research integrity. The quality of your research is proven by publications in prominent/international journals and books. International research experience is considered as an important advantage.
You have demonstrable qualities related to academic education. Teaching experience is an advantage.
You possess organisational skills and have a cooperative attitude. You also possess leadership capacities within a university context.
If you have recently been admitted to the degree of doctor, it is important that you support your research and growth potential with academic references.
The official language at KU Leuven is Dutch. If you do not speak Dutch (or do not speak it well) at the start of employment, KU Leuven will provide language training to enable you to take part in administrative meetings. Before teaching courses in Dutch or English, you will be given the opportunity to learn Dutch resp. English to the required standard. Information is available on the language attestation website https://www.kuleuven.be/communicatie/intranet/taalattestering/english

Offer
We are offering full-time employment in an intellectually challenging environment. KU Leuven is a research-intensive and an internationally oriented university that carries out both fundamental and applied scientific research. Our university is highly inter- and multi-disciplinarily focused and strives for international excellence. In this regard, we actively work together with research partners in Belgium and abroad and provide our students with an academic education that is based on high-quality scientific research.

You will work in Leuven, a historic, dynamic and lively city located in the heart of Belgium, within 20 minutes from Brussels, the capital of the European Union, and less than two hours from Paris, London and Amsterdam.

Depending on your record and qualifications, you will be appointed to tenured in one of the grades of the senior academic staff: assistant professor, associate professor, professor or full professor. In principle, junior researchers are appointed as assistant professor on the tenure track for a period of 5 years; after this period and a positive evaluation, they are permanently appointed as an associate professor.

KU Leuven is well set to welcome foreign professors and their family and provides practical support with regard to immigration & administration, housing, childcare, learning Dutch, partner career coaching, …

To facilitate scientific onboarding and accelerate research in the first phase a starting grant of 100.000 euro is offered to new professors without substantial other funding, appointed for at least 50%.”

Interested?
For more information please contact Prof. Lucie Vandewalle, academic contact person (head of the Building Materials and Building Technology Section, email: Lucie.Vandewalle@kuleuven.be, tel.:+32 16 321676) or Prof. Jaak Monbaliu (departemental chair of the Civil Engineering Department, email: Jaak.Monbaliu@kuleuven.be, tel. +32 16 321661).

For more information on guidelines and application procedure please contact Mrs. Kristin Vermeylen (kristin.vermeylen@kuleuven.be , tel. +32 16 32 09 07) or Mrs. Christelle Maeyaert (christelle.maeyaert@kuleuven.be , tel. +32 16 31 41 94).

More detailed information is available on following website:

EEO/AA Policy
KU Leuven seeks to foster an environment where all talents can flourish, regardless of gender, age, cultural background, nationality or impairments. If you have any questions relating to accessibility or support, please contact us at diversiteit.HR@kuleuven.be.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Human Resources Department
KU Leuven
Parijsstraat 72b Bus 5540
Leuven, Vlaams-Brabant 3000
Belgium