

## **Vacancy for a full-time professorship in the field of Mathematics (Department of Industrial Technology and Construction)**

The faculty of Engineering and Architecture has a vacancy for a professorship, starting from October 1, 2014. It concerns a full time position as Professor in the rank of Assistant Professor Tenure Track or Associate Professor in the Department of Industrial Technology and Construction (EA20), charged with academic teaching (mostly in Dutch), academic research and carrying out academic services in the discipline of Mathematics.

### Profile

- candidates should hold a PhD or a degree recognized as equivalent;
- candidates are required to have at least two years of postdoctoral experience on October 1, 2014;
- candidates are required to have research experience in the field of study concerned, proved by recent publications in national and international peer reviewed journals and/or books;
- candidates are required to possess the necessary didactic, organizational and communicative skills for teaching at an academic level;
- having experience in international mobility, amongst others through participation in research programs at research institutions not linked to the university where the highest degree was obtained, is recommended.

A full-time position at the entry level of Assistant Professor entails a five-year temporary appointment in a Tenure Track system. If the university board positively evaluates the performance of the person involved, the position may lead to a permanent position as Associate Professor.

The University Board has the possibility to change the appointment into a tenured position, either immediately or in due course, based upon similar academic performances in another university of research institution.

A full-time position at the entry level of Associate Professor will lead to a tenured position, without prejudice to the possibility of the University Board to opt for a temporary appointment according to art. 91 of the University Decree.

Applicants should measure up to the language proficiency as mentioned in article 91novies of the decree concerning the restructuring of higher education in Flanders. The administrative and teaching language used at Ghent University is Dutch, but in case one doesn't speak Dutch, it is also possible to apply.

In accordance with the decree, in case the candidate has an education assignment, one should have proficiency in the language in which one teaches. This means that the candidate needs to have proficiency on an ERK-level (European Reference for languages) C1.

Even if a candidate with an education assignment, isn't teaching a training component in Dutch, one should have proficiency in the Dutch language on an ERK-level B2. One should meet the requirements within 3 years after the recruitment or appointment.

More detailed information on this vacancy and on the way this job fits in the department's strategy can be obtained from Prof. Daniël De Zutter, chair of the evaluation commission, (tel. +32 (0)9 264 33 27 or e-mail: [daniel.dezutter@ugent.be](mailto:daniel.dezutter@ugent.be)).

At the Ghent University, the possibility of promotion in the rank of Assistant Professor and Associate Professor is linked to the timely achievement of predefined personalized goals.

Depending on the specific profile of the selected candidate, the rank of Assistant Professor or Associate Professor will be granted.

**Method of application:**

- Applications should be sent no later than June 24, 2014
- by e-mail to [recruitmentzap@ugent.be](mailto:recruitmentzap@ugent.be),
- with the application letter, the standard application form for Professorial Staff, and the required transcripts (copies of degrees) attached (please merge all the documents in one file). The candidate will receive an e-mail confirming receipt of the application.

The application forms for Professorial Staff (Autonomous Academic Staff - "ZAP") are available through the following link:

<http://www.ugent.be/nl/vacatures/zap/sollicitatieformulieren-zap/sollicitatiezap1.doc/view>

**Match of the vacancy within the Strategic Goals of the Department of Industrial Technology and Construction of the Faculty of Engineering and Architecture**

**Global Strategic Goals of the Faculty of Engineering and Architecture at Ghent University**

New members of the Professional Staff (i.e., Assistant Professors, Associate Professors, Full Professors, and Senior Full Professors) are expected to develop (research) activities aimed at engineering applications or architecture and to join, as far as is possible, existing research groups rather than to separately create (very) small new and isolated research groups.

The research activities within the Faculty of Engineering and Architecture are only partially realized by employees that are funded directly by the government (Professional Staff, Assisting Academic Personnel, and Administrative & Technical Personnel) or through research funds provided by the university itself. Indeed, a considerable share of research activities within the Faculty of Engineering and Architecture is realized by researchers that are funded by external national/Flemish or international resources (e.g., FWO-Flanders/Research Foundation-Flanders, IWT-Flanders/Agency for Innovation by Science and Technology, EU, contract research in cooperation with companies). While the latter concerns external funding, the research activities are in fact managed by internal Professional Staff members that succeed in acquiring external funding based on their expertise and experience.

If the Faculty of Engineering and Architecture wants to safeguard its competitive position (internationally and nationally), it will continuously have to succeed in acquiring the necessary external funding. It is therefore the Faculty's strategy to preferably create vacancies in domains in which chances are high that such external funding can be acquired. This aspect is explicitly considered during the appointment procedure of Professional Staff members within the Faculty of Engineering and Architecture.

**Strategic Goals of the Department - match with the vacancy**

The Department of Industrial Technology and Construction (EA20) is mainly responsible for the education in engineering technology at the Faculty of Engineering and Architecture (FEA). As mathematics and statistics are important corner stones in the engineering studies, it is of critical importance that mathematical courses provide necessary mathematical tools and problem solving attitudes in the bachelor program. The vacancy of a new lecturer in the field of Mathematics, at the occasion of the retirement of M. Wybo, is to be seen in the framework of the above strategic vision.

The new lecturer needs to possess strong teaching capacities and sufficient teaching expertise in order to be able to teach, in a highly qualitative way, basic mathematical courses to large groups of bachelor students in engineering technology. Moreover, he/she will have to show strong involvement in all aspects of academic education, as well as interest in scientific, communal and internal services.

The department is looking for an internationally renowned personality concerning scientific research, who contributes to mathematical solutions of engineering problems. The research discipline of the lecturer is expected to be connected to existing mathematical research groups at FEA, in particular in one of the following domains:

- Numerical Analysis and Mathematical Modeling of engineering problems
- Hypercomplex analysis for engineering problems
- Statistical modeling and data analysis of engineering problems

Interdisciplinary collaboration with other researchers, mostly with engineers, is required from the lecturer. To strengthen the competitive position of the faculty FEA, successful attraction of research projects concerning mathematics applied on engineering problems is expected.

The new lecturer needs to be communicative and a team player who strives towards a constructive cooperation with the other members of the research group 'mathematics and physics' within EA20 and by extension the whole FEA faculty.