

Vacancy for a full-time professorship in the field of Photovoltaic Energy (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 Photovoltaic Energy.

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. Marc Moeneclae, chair of the evaluation commission, (tel. +32 (0)9 264 34 13 or e-mail: marc.moeneclae@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,
- 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 is, given its history within the College University Ghent, active in very different domains in terms of research and education. The research and education is supported by a team of academic staff with specific skills, depending on their discipline.

Regarding scientific research, the department expects the new lecturer to continue the currently active research of the department in the field of sustainable energy, more specifically on the modelling of photovoltaic solar cells. At present, active research is performed regarding the characterization of photovoltaic solar cells for low-power indoor applications, the physical modelling of multi-junction solar cells and the modelling of organic bulk heterojunction solar cells.

As the department wishes to maintain its expertise with respect to the currently active research areas, it is highly recommended that the lecturer to be appointed has a sound research background (as evidenced by their publication record in international, peer-reviewed journals) in the field of photovoltaic energy in general, and the modelling of photovoltaic solar cells in particular. The candidate should be able to hire and advise Master and PhD students and is expected to apply for external funding

The Department of Industrial Technology and Construction is to date responsible for a large share of the education program of Bachelor/Master of Science in Engineering Technology within the faculty on the campus Schoonmeersen. The department wants to continue this educational responsibility the following years, in cooperation with the other departments of the faculty. This vacancy will include a significant educational workload given the limited size of the staff of the department in relation to the number of students it teaches. The sharp rise in the number of students in the first year of Bachelor of Science in Engineering Technology during the past two years will only increase the teaching load. The education should be nourished from the active research in the research groups of the department.

The research line photovoltaic solar energy of the department supports today, following the recommendation of "Transitie UGent", strongly the education of the Bachelor/Master of Science in Engineering Technology, from the perspective that an engineer should nowadays be sufficiently educated on sustainability. In order to guarantee this pillar, the lecturer will be responsible for a.o. the following courses for the Bachelors of Science in Engineering Technology: Environmental Management (1st bachelor, +/- 500 students a year), Sustainable Energy Technologies (2nd bachelor, +/- 250 students a year) and Sustainable Energy (master, +/- 50 students a year).

The candidate should have experience in teaching one or more topics related to sustainability and energy at the academic level. The lecturer to be appointed should show necessary didactic, organizational and communicative skills to teach at an academic level. In order to preserve the practical oriented profile of the education program of Bachelor/Master of Science in Engineering Technology, it is preferable that the candidate has experience in teaching to similar profiles. As the candidate is expected to define, coordinate and supervise a number of master theses each year, experience herein is preferable. In addition, the candidate will also take some organizational and/or logistical tasks in the department or faculty, in consultation with colleagues.