FULL-TIME RESEARCH AND TEACHING ASSISTANT POSITION
IN ELECTRICAL ENGINEERING
BRUSSELS SCHOOL OF ENGINEERING

Reference: 2021/S103
Application deadline: 30/04/2021
Start date: 01/10/2021

Job Description

Located in the heart of Europe, in a dynamic area, the Brussels School of Engineering offers a multicultural, friendly and green working environment. In partnership with the Bioengineering Schools, it offers no less than three bachelor, 11 master, advanced master and two doctoral programmes. Each year, more than 200 civil engineers and bioengineers are graduating and able of playing an active, responsible and critical role as citizens in a changing world. Involved at the local, regional and international levels, the School actively contributes to the progress and well-being of society through applied and fundamental research at the highest level.

BEAMS-EE – ELECTRICAL ENERGY unit
The teaching and the research of BEAMS/Electrical Energy covers several domains: electricity, electric power systems, electrical drives, power electronics, renewable energy, numerical modelling of electromagnetic devices...
See also the link below to the concerned study program and to the Google Scholar profiles of the two professors of the EE unit.
https://polytech.ulb.be/fr/les-etudes/bacheliers/ingenieur-civil
https://scholar.google.com/citations?user=mV_VDDsAAAAJ&hl=en
https://scholar.google.com/citations?user=WQZZuv0AAAAJ&hl=en&oi=ao

DESCRIPTION OF THE RESEARCH & TEACHING ASSISTANT POSITION
This job of teaching assistant consists in a half-time teaching (for BA and MA students) and a half-time research in the field of Electrical Engineering. The teaching part is devoted to mentoring students in exercises, labs, projects, internships and master theses. The other half is devoted to a PhD Thesis, on a subject to be determined in the research fields of the BEAMS/Electrical Energy research unit, under the supervision of a professor of the Department.
Education and research tasks will be evenly distributed and periodically re-evaluated.
The expected duration of a Ph.D. thesis is six years. A teaching assistant position is then granted for a first term of two years, renewable based on the opinion of the competent authorities for up to 2 further periods of 2 years (full time).

Profile

The position is open to graduates (120 ECTS master’s degree) in Engineering (electrotechnical, electromechanical, electronic, etc.), complying with the enrolment conditions to the PhD programme in Engineering Sciences and Technology.
Required skills

- Will to invest in a teaching activity and to develop pedagogical competences
- Commitment to carry out a PhD thesis
- Autonomy, reliability, high motivation
- Ability to work in multidisciplinary teams
- B2 level in French and B2 level in English
- Innovative and creative thinking is a must

Teaching workload

- ELEC-H-3001 – Electricité appliquée
- ELEC-H-201 – Electricité et électronique
- ELEC-H-312 – Power electronics
- ELEC-H-413 – Electric power systems I
- ELEC-H-405 – Electrical drives
- ELEC-H-419 – Multi-physics modelling and simulation

And possibly
- ELEC-H-543 – Electric power systems II
- ELEC-H-412 – Design and control electrical machines
- MECA-H-414 – Renewable energy technology

Interested?

For more information, please contact
- Mr. Johan Gyselinck (téléphone : +32 2 650.26.69 – courriel : johan.gyselinck@ulb.be)
- Mr. Pierre Henneaux (téléphone : +32 2 650.26.62 – courriel : pierre henneaux@ulb.be)

Applications must be sent by e-mail to the rectorate of the Université Libre de Bruxelles (rectrice@ulb.be) and to the faculty deanship (le-doyen-polytech@ulb.be).

They must include the following:
- a motivation letter
- a Curriculum vitae including a list of publications :
  
  * if you want you can complete a standard form via our website at https://www.ulb.be/fr/documents-officiels/compléter-votre-cv-en-ligne. Once completed, it must be downloaded and attached to the application file.
- a note on the applicant’s PhD research project (4 pages)
- two letters of reference

Equal opportunities policy

ULB’s personnel management policy is geared towards diversity and equal opportunities. We recruit candidates on the basis of their skills, irrespective of age, gender, sexual orientation, origin, nationality, beliefs, disability, etc.

Would you like to be provided with reasonable accommodation in the selection procedure because of a disability, disorder, or illness? Do not hesitate to contact Marie Botty, the Gender and Diversity resource person of the Human resources Department - SPES (marie.botty@ulb.be). Be assured of the confidentiality of this information.

You will find all the regulations relating to research careers on our site at http://www.ulb.ac.be/emploi/academique.html.
EURAXESS SPECIFIC INFORMATION

Type of contract: temporary
Hours per week: 38
Main Research Field: Engineering
Sub Research Field: Electrical engineering
Required educational level: Master level in Electrical or Electromechanical engineering

Required Languages:
Français: good
English: good

Required Research Experiences:
Researcher profile: Early stage researcher (0-4 years)
Experienced researcher - R3 (4 – 10 years)