

	<p style="text-align: center;">CALL FOR APPLICATIONS</p> <p style="text-align: center;">ASSISTANT PROFESSOR POSITION ON ELECTRICAL ENGINEERING/AUTOMATION AND ELECTRICAL GRIDS – STRONG MATHEMATICS SKILLS</p> <p style="text-align: center;">CDD</p> <p style="text-align: center;">Section CNU 63 ou 61</p>
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ESTIA (<http://www.estia.fr>) has three main activities: (1) teaching, (2) research and technology transfer, and (3) entrepreneurship through an incubator and a technology park. ESTIA trains generalists and trilingual engineers in the fields of energy, embedded systems, mechanics, IT, organisation, and industrial management. Associated with the University of Bordeaux, ESTIA is a member of the “Conférence des Grandes Écoles” and is accredited by the “Commission des Titres de l'Ingénieur” (CTI). ESTIA's training offer includes a Bachelor of Technology, accredited by the CTI, an Engineering Preparatory Cycle and specialised Masters/Master's degrees. In addition to its training mission, ESTIA develops, through its multidisciplinary research team ESTIA Recherche, national and European projects in collaboration with industrial companies, fundamental and applied research projects expertise and consulting operations for companies on innovative subjects. ESTIA's chairs perpetuate partnerships with industry and academia. To promote and develop these collaborative activities, ESTIA relies on the ESTIA-Tech department and its technological platforms: COMPOSITADOUR, ENERGEA, PEPSS, ADDIMADOUR and TURBOLAB.

As part of developing its research and training activities, ESTIA Institute of Technology is looking for an **assistant professor in electrical engineering with a strong mathematical background.**

Position

The teacher-researcher will be attached to the ESTIA-Research service. He/She will report directly to the Director of Research and will report to the Dean of Training for the teaching part.

Profile

The applicant must have a **PhD in Electrical Engineering / Automation with a strong mathematical background** and experience in teaching. Research results related to the research activities below and teaching skills related to the disciplines to be taught described below are sought. The ability to teach in English and/or Spanish is appreciated.

Research activities

Estia-Recherche is the Research Unit of ESTIA Institute of Technology, registered at the RNSR under the n° 201420655V ESTIA-Recherche is part of the Engineering and Digital Sciences (SIN) research department of the University of Bordeaux. The unit is also part of the research laboratories of the Carnot ARTS Institute. ESTIA Research registers its PhD students in the doctoral schools SPI (Sciences pour l' Ingénieurs), MI (Mathematics and Informatics) and EES (Business, Economy and Society) of the University of Bordeaux. We expect the Assistant Professor to be part of the "*Sustainable and Empowering Interfaces*" research project, which addresses the study, design and implementation of System-System, Human-System and Human-Human interactions. More specifically, considering the profile, he/she will work within the research axis of Renewable Energy Integration, focusing on the

following issue: *how to move from the traditional paradigm of power grids as a utility-oriented system to a customer-centric system. In particular, the candidate should have **expertise in statistical, probabilistic artificial intelligence methods oriented towards power system resilience**.* The candidate will be involved in research activities including but not limited to Micro-Grids and SmartGrids, power electronics and control applied to renewable energy sources and storage. The candidate will be required to develop research activities with experimental support in his/her field of expertise and to develop ESTIA's skills towards the industrial sector. The following skills will be highly appreciated:

- Experience in Matlab/Simulink and/or DigSilent,
- Experience in modelling and simulation of dynamic systems,
- Experience in real-time simulation (OPAL-RT, dSPACE...).

Teaching activities

The recruited Assistant Professor will participate in EEA teaching in the Estia engineering cycle and the Bachelor and/or Masters courses. He/she must have a background in EEA and will teach in electrical and automatic engineering (Electrotechnics, Automation, Electronics, Robotics and SmartGrids).

Expected competencies in pedagogical engineering

ESTIA implements active, inductive, individualized and learning processes. The recruited Assistant Professor will contribute to the implementation of these processes. He/she will collaborate with the heads of the cycle and with other teachers to contribute to the evolution of the contents and pedagogical methods in his/her field of competence.

Collective Responsibilities

The Assistant Professor will be involved in the collective responsibilities of the teaching activities: support for internships, student follow-up, evaluation of reports, etc... The time devoted to these activities will vary during the year, depending on the needs and the distribution of teaching activities.

Submission of applications

Recruitment will begin on 19 February 2024 and continue until the position is filled. Applications including a detailed C.V. accompanied by a letter of motivation as well as the names and e-mail addresses of three people likely to provide a letter of recommendation and any evidence of skills developed through previous experience should be sent to Isabelle ERREÇARRET, i.errecarret@estia.fr, +33 559.43.84.14.

ESTIA's recruitment policy aims to improve the representation of disabled staff within its workforce, and this post is open to disabled people.

Contacts and useful links

Recruitment contact: **Ionel VECHIU**, i.vechiu@estia.fr, +33 (0)5 59 43 84 74

Dean of Programmes: **Christophe Merlo**, c.merlo@estia.fr, +33 (0)5 59 43 84 33

Head of ESTIA Recherche : **Nadine COUTURE**, n.couture@estia.fr, +33 (0)5 59 43 84 67

Web : <http://www.estia.fr>

Video presentation: <https://www.youtube.com/watch?v=tN2IJU9QQ2o>