



IMT Atlantique

Bretagne-Pays de la Loire
École Mines-Télécom

**IMT ATLANTIQUE Bretagne-Pays de la Loire
recruiting an Associate Professor (II – C)
Digital Electronics and System on Chip**

<http://www.imt-atlantique.fr>

IMT Atlantique (école nationale supérieure Mines-Télécom Atlantique Bretagne Pays de la Loire) is an Elite Graduate School of Engineering and an International Research Center under the authority of the Ministry of Industry and Digital Communications.

Resulting from the merger between Mines-Nantes and Télécom-Bretagne at the 1st of January 2017, IMT Atlantique is a member of the "Institut Mines-Télécom" (the leading group in France for studies and research in Engineering and Management. It includes 12 Engineering Institutes and 1 Business School spread throughout France).

Based on 3 different Campuses: Brest, Rennes and Nantes, IMT Atlantique aims to become the most acknowledged French research institute that combines Energy and Digital Technology to transform Society and Industry through Education, Research and Innovation.

Each year, IMT Atlantique guides 2.300 students in Engineering / Master of Science and PhD programs. Lead by 290 Researchers, IMT Atlantique's research activities lie at the crossroads between the world of Business and High Education, providing 1.000 publications and 18 million euros from research contracts each year.

IMT Atlantique programs are based on a leading-edge research through 6 research departments: GEPEA, IRISA, LATIM, LABSTICC, LS2N and SUBATECH.

SPECIFIC CONTEXT OF THE RECRUITEMENT:

The core activity of the Electronics department at IMT Atlantique consists in elaborating new algorithms and original digital and analog circuit architectures validated by lab and field experiments. **Teaching associated with the open position will mainly be in the field of advanced digital electronics engineering.**

Research in the department is articulated around a strong interaction between algorithmic skills and digital / analog circuit design, coupled with an experimental approach. The research team is part of the CNRS laboratory Lab-STICC (Laboratoire en Sciences et Technologies de l'Information, de la Communication et de la Connaissance), in the CACS cluster (Communications, Architectures, Circuits and Systems). The research activity of the team was rated « exceptional » by the national research evaluation committee (HCERES). The team contributes to standards, organizes international conferences and participates to European projects.

The department is seeking a candidate with skills favorably matching the interaction between algorithms and architectures. The chosen candidate is expected to provide an expertise in digital electronics and system on chip design. Depending on his/her skills and wishes, he/she is expected to apply this expertise on applications related to digital communications, cyber security or artificial intelligence.

IMT Atlantique Bretagne-Pays de la Loire - www.imt-atlantique.fr

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RESPONSABILITIES:

Within the well established guidelines for academic education and research activities defined by IMT Atlantique, under the responsibility of the Head of the Electronics Department, as part of a teaching and multidisciplinary research team and in close collaboration with the different divisions of IMT, the chosen candidate is expected to

- teach, develop and coordinate courses (lectures, small classes, project supervision, ...) and teaching methods (face to face, project,...) in one or more disciplines (particularly in digital electronics) for a diverse audience (engineering students, master students,...).
- develop a research program in a team, in collaboration with internal (to IMT) and external partners.
- contribute to the reputation of IMT Atlantique and IMT through presentations, conferences, scientific publications and through his/her involvement in national and international networks in scientific and professional communities of the economic world.
- obtain, through industrial contracts or project submissions, financial support and find the human resources to accomplish these tasks.
- carry out the actions necessary to promote and develop scientifically and economically, the research results through innovation, transfer to businesses (intellectual property, know-how, expertise, entrepreneurship).
- contribute to the dissemination of information on research in society, through popular science publications and presentations to the general public.
- possibly coordinate or supervise the activity of one or more internal or external lecturers.
- contribute to the collective smooth running of IMT Atlantique, incorporating the appropriate recommendations, rules and constraints.
- contribute to collective missions: boards, promotional activities and communication, forums, cross- disciplinary working groups, decision-making or consultation groups.

QUALIFICATIONS AND SKILLS:

Level of training and/or required experience:

- PhD or an engineer with experience in the field of Digital Electronics
- Graduate from French "Grandes Ecoles" or equivalent with experience ≥ 5 years
- Masters degree in Electrical and Computer Engineering or equivalent with experience ≥ 5 years

Skills and Abilities:

- Strong skills and motivation for research and teaching
- A capacity to adapt to evolving thematic directions
- Excellent relational skills and a capacity to successfully integrate interdisciplinary teams of researchers and professors
- Open-minded and a capacity of self-evaluation
- Interest into and openness to the private sector
- Interest into and openness to innovative pedagogical approaches

Theoretical knowledge, skills and practices necessary to hold the post:

- Theoretical and practical skills in the above-mentioned fields
- Excellent written and spoken English
- Solid teaching experience
- Ability to teach in both English and French would be a plus



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OBSERVATIONS:

IMT Atlantique is a public technological university focusing on the training of engineers at the MSc. level and junior researchers at the PhD level. Being a technological university, IMT Atlantique benefits from an advantageous status compared to french public universities. As such, we offer very competitive salary packages. Successful candidates will also benefit from 49 annual paid holidays, as well as access to multiple benefits from the institutions' union (such as campus activities or sea sports). The Brest campus is ideally located at the sea front. Living costs in the Brest bay area are exceptionally low, with a high quality of life.

A position more oriented towards embedded systems is also opened within the department.

Position based on the Brest campus. Travel in France and abroad is expected

Deadline for application: **April 22, 2018**

Date of the recruitment committee: **May 22, 2018**

Recruitment: **Fall 2018**

TO SUBMIT AN APPLICATION:

Please send by email to the following address: recrut18-mc-soc@imt-atlantique.fr

To the attention of "Marion TONDUT – DRH – IMT-Atlantique", **only one PDF file** including :

- A detailed CV
- A letter of motivation
- Letters of Recommendation
- Defense/Reports of PhD
- Teaching and research projects
- Any other element that may support your application

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