

Associate Professor (Maître de Conférence) in Distributed Systems and Software Engineering (tenured position)

Ecosystem and context

IMT Atlantique, internationally recognized for the quality of its research, is a leading technical university under the supervision of the Ministry of Industry and Digital Technology, ranked in the three main international rankings (THE, SHANGHAI, QS).



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom

IMT Atlantique maintains privileged relationships with major national and international industrial partners, as well as with a dense network of SMEs, start-ups, and innovation networks. With 290 permanent staff, 2,200 students, including 300 doctoral students, IMT Atlantique produces 1,000 publications each year and raises 18€ million in research funds.

The position is open on the Nantes campus within the Software Engineering and Distribution (GLR) group of the Automation, Production and Computing Department (DAPI). The group's teams are all part of the Nantes Digital Sciences Laboratory (Laboratoire des Sciences Numérique de Nantes - LS2N, UMR CNRS 6004) and are, in part, joint project-teams with Inria's research center in Rennes.

Issues and research subjects

Software, in particular large-scale distributed applications and infrastructures, and its development hold a central place in the current profound technical, societal, and economic transitions, as well as in the response to the energy and ecological crises. They enable communication at all levels of society on a global level, provide models for the sharing of geo-distributed computation and storage facilities, manage vital functions of our cities and industrial processes, enable reductions in energy consumption and optimization of its distribution.

The development, the deployment, and the execution of such very complex software are subject to major challenges relating to the definition, automation and efficiency of all its stages and their correction. These issues are even more difficult to meet as the underlying distributed infrastructures, such as the continuum from the Cloud to the Internet of Things, are becoming increasingly heterogeneous.

This position is fully in line with the domains of large-scale applications and infrastructures, the continuum cloud-IoT, and the Industry of the Future, which are at the heart of major national and European research efforts. It is also thematically linked to two apprenticeship trainings for specialist engineers: Software engineering (FIL) and Digital transformation of industrial systems (FIT).



These subjects are mainly developed by the STACK team <https://stack.inria.fr>. The recruited candidate will therefore join this team, but collaborations with the other teams of the group will be highly appreciated.

The recruited candidate will have to take part in projects of the department, both pure research projects and third party funded projects, participate in setting up new projects and publish their results in highly reputed international scientific journals and conferences. S/he will also have to co-supervise doctoral students, postdocs and master's level students.

Training

IMT Atlantique's training program has been recognized as one of the most innovative in higher education and research in France and offers wide possibilities for the development of innovative engineering programs and teaching approaches. The recruited candidate will contribute to various training courses (full-time engineering studies or engineering-degree apprenticeship programs, master-level programs), both in their Software Engineering and Distributed Systems specialty as well as in common core courses or cross-functional activities related to the socio-economic world: tutoring projects/internships, defenses, support, etc. S/he will be invited to propose new projects, programs, and related educational methodologies, inspired by the advancement of science and supported by industrial requirements and partnerships, see:

<https://www.imt-atlantique.fr/fr/formation>

More specifically, the position aims to strengthen and develop degree apprenticeship training for engineers, specializing in Software Engineering (FIL) and Digital Transformation of Industrial Systems (FIT). Interest in the pedagogical management of training programs, with a gradual assumption of responsibility in one of these apprenticeship training courses, is desirable.

Expected skills

The skills required and expected of candidates for the position of Lecturer at IMT Atlantique can be viewed at the following address:

<https://www.imt-atlantique.fr/fr/l-ecole/emploi/enseignement-chercheur/competences-mc>

In the case of this position, particular and complementary emphasis will be placed on the candidates' skills in software engineering and distributed systems.

Deadline for submitting applications: Nov. 19, 2023, 11:59 p.m. Paris time

Date of the recruitment interview: December 19, 2023

Start date of the position: February 1, 2024

Application documents

- Application form <https://institutminestelecom.recruitee.com//en/o/maitre-de-conferences-en-genie-logiciel-et-systemes-repartis-cdi/c/new>
- CV + motivation letter
- Integration project relative to the 3 axes Education / Research / Transfer to industry and general public
- Photocopy of identity card or passport
- Photocopy of diplomas or a certificate of achievement
- Thesis defense report
- Reports of the two thesis reviewers
- Any other element that may support your application

Contacts

For more information, you can contact:

- Alexandre Dolgui, Head of DAPI, Alexandre.Dolgui@imt-atlantique.fr
- Mario Südholt, Head Software Engineering and Distributed Systems group, Mario.Sudholt@imt-atlantique.fr
- David Lemoine, DAPI deputy of teaching, David.Lemoine@imt-atlantique.fr

Benefits

- Partial homeworking
- Collective catering on site
- Leisure/sport offers
- Support for public transport
- Sustainable mobility package (for carpooling or cycling trips)
- Family supplement
- Large number of holidays
- Wide range of social benefits
- Exceptional work environment
- Stimulating innovation ecosystem (startups, students, research, companies)

Legal Notice

- Type of contract: Public law
- Geographical location:
IMT Atlantique - 4 rue Alfred Kastler , La Chantrerie, 44307 Nantes
- The positions offered for recruitment are open to everyone with, on request, accommodations for candidates with disabilities
- Employment also open to civil servants and public service contractors
- Any application may be subject to an administrative inquiry.