

FACULTY RECRUITMENT PROFILE
Assistant Professor in tenure track
CVN, L2S, LISN, MICS laboratories

Title: Assistant Professor

Position: Assistant Professor (tenure track) in *Artificial Intelligence*, at *Department Computer Science or Mathematics* Faculty of CentraleSupélec, Paris-Saclay Campus. The laboratory will be one of the following four laboratories:

- The CVN (Center for Visual Computing);
- The L2S (Laboratory of Signals and Systems);
- The MICS (Laboratory of Mathematics and Informatics);
- The LISN (Interdisciplinary Laboratory of Digital Sciences).

In accordance with CentraleSupélec's recruitment policy for the position of Assistant Professor on a 5-year fixed-term contract under public law, a transition to a permanent contract will be examined during the five-year period by an internal commission at the institution.

CNU Section: 27, 26, or 61.

Domain / Job profile: (*short description of domain*)
Assistant professor in Artificial Intelligence

Keywords: (*list separating each item with a comma*)

Artificial Intelligence, Knowledge representation and reasoning, Deep learning, Statistical learning, Decision models, Optimization, Computer Vision, Data Processing (Signal, Image, ...), Natural Language Processing, Operations research, High Performance Data Analysis, Mathematical Foundations of AI.

CentraleSupélec, member of Paris-Saclay University (13th in the Shanghai ranking, et 1^e in Mathematics) is a public scientific, cultural and professional institution (EPSCP in French) under the authority of the Ministry of Higher Education and Scientific Research and the Ministry of the Economy, Industry and Digital Technology. Its main missions are: the training of high-level scientific general engineers, research in engineering and systems sciences, and executive education.

The Departments of Computer Science and Mathematics are intended to cover the disciplinary fields of computer science and mathematics on the CentraleSupélec engineering course. These departments actively contribute to the teaching of the Master of Sciences at CentraleSupélec, in particular the "Master of Science in Artificial Intelligence" (Ranked 2nd in Artificial Intelligence, Eduniversal) and the "Master of Science in Data Science and Business Analytics" (Ranked 3rd Worldwide in the domain).

Academic profile:

Successful candidates will join, depending on their profile, the Computer Science or Mathematics Department of CentraleSupélec. It is expected that they invest, for at least 50% of their service, in various teachings of the Master of Science in Artificial Intelligence (in English) and complete their service by teaching other courses within CentraleSupélec and /or Paris-Saclay University as part of the SaclAI-School project. They will also participate in the supervision of student projects in artificial intelligence at all levels of the course (MSc, research course, 2nd year, 3rd year, Bachelors). Interventions may be made in continuing education.

The teaching service will be reduced during the 1st year, in order to allow the installation of the recruited person. As the lessons of the MSc AI are taught in English, the ability to teach in English is expected.

Research profile:

Recruited individuals will develop high-impact research in artificial intelligence. The research profile is broad and includes all aspects of the field of artificial intelligence including (without being exhaustive) statistical/deep learning, optimization, knowledge representation and reasoning, decision models, vision computer-based, image/signal processing, natural language processing, operations research, mathematical foundations of artificial intelligence.

The interest of the people sought for Artificial Intelligence applications will be appreciated in the field of:

- Health/medicine,
- Industry 4.0,
- New forms of mobility/transport,
- Energy.

The interest of people for an ethical and responsible implementation of Artificial Intelligence and for its applications in the service of society will be highly appreciated. Depending on their research profile, the person will be integrated into the CVN, L2S, LISN or MICS laboratory and will develop high-impact research in the field of artificial intelligence by contributing to strengthening and extending the issues of the team that she will join.

Candidate profile:

The person must hold a doctorate in artificial intelligence (see keywords), have proven themselves in research and have an excellent publication record in major conferences and journals in the field. The recruited person will have to develop his own research activity and interact with the other teams of the host laboratory, as well as other teams of the "Hub IA" of CentraleSupélec.

Recruitment interview:

For the candidates selected for the audition, the audition will take place in three stages:

- A presentation of the candidate's background and integration project;
- An illustration of a 5-minute lesson, given in English, on a problem, whose subject is identical for all candidates, will be specified on the invitation;
- An exchange with the members of the committee.

The duration of the three parts of the audition will be specified in the invitation letter.

Candidatures:

File in pdf format, including:

- A cover letter
- A detailed CV (teaching experience, research, mobility, publications, etc.)
- An integration project (both in terms of research: 2-3 pages and teaching: 2-3 pages)
- A copy of the identity card or passport
- A copy of the doctoral degree
- And any documents that attest previous experience

must be sent by email only to the two contacts below before July 3, 2022 at the latest:

Lorraine Maret, human resources: lorraine.maret@centralesupelec.fr

Scientific contacts:

Vincent Mousseau, Head of the Master of Science in AI

Céline Hudelot, Head of the MICS laboratory

Jean-Christophe Pesquet, Head of the CVN laboratory

Pascal Bondon, Head of the L2S laboratory

Sophie Rosset, Head of the LISN laboratory

Erick Herbin, Head of the Mathematics department

Frédéric Boulanger, Head of the Computer Science department

Frédéric Pascal, Head of the « Hub IA » et Co-head of the DATAIA Institute.