



Provost's Office

Department : Applied Mathematics

Position : Assistant Professor F/H

Equivalent rank : Assistant Professor

Position référence :

Field, Discipline, or Theme : Applied mathematics ; Machine learning and applied probability

Rate : Full-time

Number of positions : 1

Contract type : Permanent contract - CDI

Application deadline : March 23, 2026

Start date : September 1st, 2026

About Ecole Polytechnique

Ecole Polytechnique, commonly known as l’X, is a world-leading higher education and research institution. Under the supervision of the French Ministry of Armed Forces, École Polytechnique is a founding member of the Institut Polytechnique de Paris, alongside five prestigious *Grandes Écoles* : ENSTA, ENPC, ENSAE, Télécom Paris and Télécom SudParis. Highly international (40% of its students and 40% of its faculty are international), École Polytechnique combines research, teaching, and innovation at the highest scientific and technological levels. With 23 laboratories, including 22 joint research units with CNRS, its research center advances knowledge at the forefront of interdisciplinary scientific, technological, and societal challenges.

The recruited faculty member will also join the Mathematics Department of IP Paris, which brings together scientific communities at the Institute level.

Committed to attracting top talent in teaching, research, and administration, and to welcoming ever more students into its programs of excellence, École Polytechnique is firmly dedicated to diversity, gender equality, and inclusion. In its recruitment process, the School pledges to review all applications without discrimination¹. Ecole Polytechnique is a diverse environment institution and is committed to maintaining and enhancing this diversity. In 2025, 41% of our faculty, 55% of our PhD students, and 45% of our students are international. That same year, 42% of our new faculty hires were women, and 25% of our total faculty are women.

¹ In accordance with Articles L1132-1 of the *Code du travail* and Article 225-1 of the *Code pénal*.

Job Description

Affiliated Laboratory: Centre de Mathématiques Appliquées (CMAP)

Main Missions and Activities: The Assistant Professor position is essentially equivalent to a Senior Lecturer position at a university in terms of teaching and research duties and activities.

Prerequisites: PhD in Applied Mathematics or a related field. Fluency in French is not required.

Research profile: The department aims to strengthen its expertise in machine learning and applied probability, which is the main research focus of this recruitment. Some emphasis will be placed on the candidate's ability to collaborate effectively within interdisciplinary teams, particularly at the interface between applied probability and machine learning, although the profile remains broadly open. Potential research topics include generative models, optimization for artificial intelligence, deep learning, and reinforcement learning; however, this list is not exhaustive. In particular, candidates whose research is methodological or theoretical within machine learning and statistics will be given careful consideration. The department also welcomes outstanding applicants working in fields closely related to these fields.

Teaching and Research Activities: The successful candidate will teach courses in machine learning, statistics and probability within the Department of Applied Mathematics. They will also supervise student projects, including potential numerical developments, and offer advanced research-based courses. They will conduct their research within the teams at the Center for Applied Mathematics (CMAP) of École Polytechnique and participate in the laboratory's activities.

This position is associated with the Hi!Paris AI Cluster, the AI center on Data Analytics and Artificial Intelligence for Science, Business and Society.

More broadly, a contribution to major societal and environmental challenges, in line with the institution's commitments, will be expected.

Application Process

Applications must be submitted directly via the Calliopé platform :

<https://candidatures-calliope.polytechnique.fr/calliope-fo/accueil/index.php?lang=en>

Required Documents: ID, CV, cover letter, teaching statement, research statement, list of potential references who can provide letters of recommendation. The candidate **must have defended a doctoral thesis in mathematics or computer science** at the date of submission of the application.

She or he should present a *detailed scientific project* demonstrating how his or her research activity will reinforce existing research in statistical learning in the CMAP. The candidate is strongly encouraged to contact CMAP members to discuss the research project.

She/He should be able to contribute to the teaching of machine learning, statistics and probability (bachelor's degree, polytechnic engineering cycle, master's degree, even MOOC and Executive Education) with a set of courses adapted to her/his profile in these themes. She/He will have to be part of the teaching teams for the fundamental applied mathematics courses and the more specialised courses. His/her ability to contribute to project-based teaching and to strengthen the links between teaching, research and applications will be an important element of the application.

Selection criteria. The main selection criteria are as follows.

- **Quality of the research application.** The jury will pay particular attention to the quality, significance and impact of the research results obtained.
- **Quality of the teaching project**
- **Integration into the team and alignment with priority themes.**
- Career breaks will be taken into account.
- Fluency in French is not a prerequisite, as teaching in English is commonplace at Polytechnique.

We recommend that candidates read the application guidelines prepared by the department, which is available at :

https://www.polytechnique.edu/sites/default/files/content/Consignes_candidature_poste.pdf

Conditions: The Ecole Polytechnique offers an attractive remuneration (depending on experience) and an exceptional environment both for teaching, with a reduced workload and contact with brilliant pupils/students, and for research, with the support (scientific,



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administrative and budgetary) of the CMAP. It also provides its assistant professors with excellent conditions for preparing a habilitation to direct research.

Contact

Candidates are strongly encouraged to contact the department in advance to discuss and refine their teaching and research projects :

- Paul Mangold (paul.mangold@polytechnique.edu)
- Anne Auger (anne.auger@polytechnique.edu)
- Alain Durmus (alain.durmus@polytechnique.edu)