Provost's Office

Department : Applied Mathematics

Position : Assistant Professor F/H
Equivalent rank : Assistant Professor
Position référence :
Field, Discipline, or Theme : Applied mathematics ; analysis and optimization
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 discrimination[1]. 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.

Desired Profile: The successful candidate will be a highly talented young applied mathematician with research experience in analysis and/or optimization. Disciplinary fields may include analysis and numerical analysis of partial differential problems, calculus of variations, control theory, inverse problems, continuous or discrete optimization, or game theory. An openness to applications will be valued. Applications at the interface between analysis and probability, statistics and data science, or other scientific disciplines such as computer science, physics, life sciences, economics, engineering, or mechanics will be given particular consideration.

Teaching and Research Activities: The successful candidate will teach courses in partial differential equation analysis, numerical analysis, control and optimization within the Department of Applied Mathematics. She/he will also supervise student projects, including potential numerical developments, and offer advanced research-based courses. She/he will conduct their research within the teams at the Center for Applied Mathematics (CMAP) of École Polytechnique and participate in the laboratory's activities. In the CMAP, She/he will be a member of one of the teams of the Analysis Pole or the Decisions and data Pole.

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,** in the fields of statistics, machine learning or optimization 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 applied mathematics, partial differential equation analysis, numerical analysis, control and optimization (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. Her/his 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, 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 :

- Philippe Moireau (philippe.moireau@polytechnique.edu)
- Anne Auger (anne.auger@polytechnique.edu)