

**is recruiting an
associate professor in
ENERGETICS / FLUIDS /
THERMAL ENGINEERING**

Would you like to be part of a dynamic and challenging team, leader in accompanying the transformation of industry for a better society respectful of the individual and the environment?

Then join Arts et Métiers campus de Rabat, its Evolutive Learning Factories project and the vibrant campus around the development and management of industrial systems.

Arts et Métiers Campus of Rabat

Arts et Métiers campus of Rabat, a co-development project between the **Ministry of Industry and Commerce** in Morocco and **Arts et Métiers** in France, is a public higher education institution, managed by a Foundation with private status. **Arts et Métiers campus de Rabat is organized along the same model as the 8 French campuses of Arts et Métiers in accordance with French regulations to allow the award of Arts et Métiers diplomas, and in accordance with the Moroccan regulations to allow the award of national diplomas.**

Arts et Métiers campus of Rabat aims to become a driving force and a relay for North-South and South-South cooperation in the fields of higher education, research, innovation and technology transfer. It will be built around an Evolutive Learning Factory, a set of technological platforms showcasing the new technologies for a sustainable industry around which the three pillars of the campus: Training, Research and Entrepreneurship. The Bachelor of Technology / Professional License and Engineer degree started in September 2023. The objective of Arts et Métiers campus of Rabat is to reach 1,000 students.

To strengthen its academic team, Arts et Métiers campus de Rabat is recruiting an associate-professor or a professor specialized in **energetics, fluids and thermal engineering**, with teaching and research experience (international experience would be an advantage), a good knowledge of industrial economic realities.

Possible competencies in the job profile

Coupled heat and mass phenomena, multiphysics/multiscale modelling of energy systems, phenomena at interfaces, microfluidics, energy conversion machines and systems (including solar, wind, fuel cells, etc.), hydrogen production /compression / storage, CO2 storage, thermal engineering.

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Academic

You will mainly teach at various levels of engineering training in the fields of energy, heat transfer and applied fluid mechanics, particularly in the context of the development of renewable energies, electrical machines and energy efficiency

You will develop and implement new teaching methods at both undergraduate and graduate levels (project-based learning, reverse pedagogy, e-learning, MOOC, serious games...) as well as in continuous education programs. You will be in charge of practical teaching facilities, in particular for energy systems in the Evolutive Learning Factory. The experiments may be supplemented by modelling or numerical simulations of the multi-physical systems studied.

You will ensure that research approaches are integrated in the training of engineering students in accordance with our policy.

You will supervise undergraduate projects, graduate (Master) and postgraduate (PhD) students in conducting their research activities

Research

You will integrate and participate in setting up the S3I research center of the Arts et Métiers campus de Rabat focusing energy conversion machines and system and energy storage, while benefiting from a privileged partnership with one of the laboratories of Arts et Métiers that best matches your expertise. This laboratory could be [LIFSE laboratory](#) in campus of Paris or [I2M laboratory](#) in the campus of Bordeaux, with which you will collaborate to develop scientific research at the highest level, in connection with the industrial environment.

Strategic project

You are motivated to:

- effectively use the results of research activities in teaching and training;
- participate in the design and definition of an Evolutive Learning Factory by developing a reconfigurable, safe and efficient production system, and in particular on the capture and processing of data for its monitoring and management;
- develop a research activity in strong connection with industrial issues,
- secure additional funding from national and international funding agencies and industry to support your research activities and that of the research laboratory, with support from the A&M external partnership team.

Your profile

- PhD in the areas described in the job profile;
- Mastering in numerical methods;
- Excellent interpersonal skills;
- Very good teamwork skills;
- Ability to teach in both French and English.

Desired experiences

- Practice of innovative teaching methods in learning;
- International experience;
- Research activities in partnership with the industry

To apply

Submit your application on [Arts et Métiers campus of Rabat](#) website, in the "Recruitment" section until March 15, 2024.

Your application file will include:

- a copy of your ID
- a CV detailing background, significant experiences and scientific production
- a motivation letter (1 page maximum) including the research integration project,
- a list of training supports (providing one or more examples of support type would be an advantage)
- the contact details of 2 academic referees