



2023 Recruitment Job Sheet
Professor / Assistant Professor
ENTPE
(Graduate school of Civil, Environmental and Urban Engineering)

Job title: Assistant Professor / Professor in Microeconomics applied to transport and mobility
Discipline(s): Economics
Specialty(ies): Econometrics, Micro-economics, Transport Economics, Behavioural Economics
Laboratory of assignment: Laboratoire Aménagement Economie Transports / Transport Urban Planning Economy Economics Laboratory (LAET – UMR 5593 U. Lyon 2 / CNRS / ENTPE – <http://www.laet.science>)
Location: ENTPE – Vaulx-en-Verin - France
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1-Context and issues

A higher education and research institution constituted as a public scientific, cultural and professional establishment (EPSCP) under the supervision of the Ministry of Ecological Transition, the École nationale des travaux publics de l'État (ENTPE) is involved, in training and research, in all the professional fields of planning and management of urbanized territories:

- Buildings and infrastructures;
- Land use planning, urban policies, and urbanism;
- Transport systems and mobility;
- Soil, water and anthropized hydrosystems: control of environmental impacts and preservation of hydrosystems.

In an increasingly competitive context, the major challenge for the ENTPE today is to position the school even more strongly and to gain recognition for its work in the academic and socio-economic spheres, both nationally and internationally. With this in mind, the ENTPE has established a new strategic project that affirms its desire to make the school a pilot and exemplary institution in the field of ecological and solidarity-based transition.

The school currently trains approximately 700 engineering students, most of whom are recruited from the post-graduate preparatory classes for the grandes écoles. It also offers a range of master's degrees and specialized masters, as well as continuing professional education programs. It will open a Bachelor's degree program in "Ecological Transition and Territories" in September 2023, with the first year under student status and the other two years under apprentice status, with a target enrollment of 50 students per year. The school is part of the Lyon Saint-Etienne site dynamic and works closely with the three other public engineering schools on the site: Insa Lyon, Ecole Centrale de Lyon and Mines Saint-Etienne.

The ENTPE is the supervisor of five research laboratories, four of which are affiliated with the CNRS and one with the Gustave Eiffel University. On its site, the School employs and hosts 80 researchers, 60 of whom are permanent. About 100 theses are in preparation.

The management of training is organized within the Initial Training Department (Direction de la Formation Initiale – DFI), which relies on the skills of the laboratory staff to implement the training programs offered in the institution.

In this context, the ENTPE is looking for a teacher-researcher, to ensure a research mission at 50% of his time within the Transport Urban Planning Economics Laboratory (Laboratoire Aménagement Economie Transports – LAET) and teaching (50% of his time) in the training courses offered by the school.

Description of the themes of the laboratory

The LAET: A joint research unit of the CNRS, the U. Lyon2 and the ENTPE, the LAET is a research laboratory specializing in transport, mobility and territorial issues, rooted mainly in two disciplines: economics and urban planning. It brings together researchers from these disciplines, as well as from management, geography, sociology and political science. The LAET mobilizes the concepts and tools of these disciplines to: understand and model the spatial mobility of people and goods, in interaction with lifestyles, the location of household residences and economic activities; analyze and evaluate public policies on transportation and land use planning; and finally, shed light on public decision making in response to society's "live issues".

In addition to scientific production (articles, research reports, books), researchers also produce expert reports for socio-economic partners, decision-making tools and popularization articles. Finally, both at the University of Lyon 2 and at the ENTPE, they are involved in training.

2-Missions

Position

The teacher-researcher will be assigned to the Laboratoire Aménagement Economie Transports (LAET). His/her research activity is part of the scientific program of this unit. His teaching activity is part of the collective and contractual commitment that his laboratory and the DFI define each year. All of his/her activity is placed under the responsibility of the director of his/her research unit at the ENTPE.

Training activity

The person recruited will be involved in all the training courses offered by the ENTPE, in particular and as a priority in the post-baccalaureate Bachelor's degree course "Ecological Transition and Territories" which is due to open in September 2023 (levels L1 to L3), but also in the initial engineering training at the ENTPE, in the Masters courses with which the establishment is associated and in the continuing education courses that it implements.

The teaching mission consists of contributing to the pedagogical engineering of the various training courses offered by the ENTPE, participating in the steering and management of the teaching, and providing courses, tutorials and practical work, supervision of projects and internships, as well as academic tutoring of students, in particular work-study students, in direct contact with the company's apprenticeship supervisor. The teacher-researcher must be able to teach in English and on line (or in a hybrid format).

The areas of training targeted, with regard to the pedagogical models of the various training courses offered by the ENTPE, are the following: econometrics, urban mobility modeling, production and analysis of territorial data, etc. The incumbent will also be expected to contribute to teaching aimed at fundamental scientific contributions in economics, social sciences or statistical and modeling methods.

Research

In terms of research, the incumbent will develop his or her activity around the understanding and modeling of mobility behaviors (of people or goods) through the econometric approach. Several issues can currently be identified in this field, including:

- To better account for the capacities and aptitudes for behavioral change, in particular by integrating psychosocial factors with the usual explanatory factors, relating, for example, to attitudes towards mobility, its stakes and its conditions of realization;
- Renew modeling approaches by mobilizing new data sets (passive data, for example), or by designing and conducting adapted surveys (of stated preferences, in particular) in a variety of social, geographic, economic and institutional settings.
- Develop individual-centered modeling approaches (discrete choices, multi-agents...) in order to address more targeted issues or to work on emerging practices.

This research activity, centered on microeconomics and econometrics, will be able to embrace a multidisciplinary perspective, notably through collaborations within and outside the laboratory. It will lead to an academic production (articles in scientific journals and books) and will be based on the response to calls for research projects (or other partnership projects) to the elaboration of which the recruited person will have contributed.

3-Expected profile

- For Assistant professors: The candidate must hold a PhD in economics;
- For Professors: The candidate must be qualified to direct research in economics, or be able to justify an equivalent level for foreign candidates (publications, doctoral supervision, experience of scientific direction of research projects, teaching).
- The candidate must be able to justify his/her interest, willingness and experience in teaching and pedagogical support of students; he/she must be able to cover a wide range of courses at ENTPE (Bachelor's degree, engineering cycle and Master's degree) in order to meet the evolving needs of the training.
- He/she will have to justify scientific publications in journals as well as communications in conferences or the writing of internationally recognized books in his/her disciplines and field of research.
- He (she) will have to show that he (she) is well integrated in the scientific networks of his (her) discipline.
- He (she) will have to demonstrate knowledge and skills in econometric modeling, and in data management and/or production;
- He (she) must be fluent in written and spoken English.

The following elements will also be appreciated by the recruitment panel:

- A good knowledge of the socio-economic world and a vision of the needs for skills in the field of transport and urban mobility;
- Have experience abroad or the ability to mobilize a national and international network;
- Have a research experience at the end of the thesis;
- Have a good knowledge of their scientific field, of the issues, actors and associated networks, in their discipline, on their themes and in neighbouring disciplines and themes;
- Have, in particular for professorships, proven experience in setting up and conducting collaborative research projects, transfer/upgrading projects or more broadly partnerships;
- Demonstrate a good ability to use data management, programming and modeling tools, especially those available for free (Python, R...). Skills and experience in AI and machine learning will be an important asset;
- Demonstrate ability to work in a team and multidisciplinary collaboration.
- Have a CNU qualification.

4-Application procedures

Interested parties are to send applications by e-mail to recrutement-enseignants-chercheurs2023@entpe.fr indicating name, surname, e-mail address and the position applied for.

In return, a message will be sent informing you of the application procedure: this procedure is dematerialized via the website <https://recrutement.entpe.fr>

Application includes a Research and Training project. To prepare their applications and define their research and training projects, and until the closing date for applications, candidates are strongly encouraged to contact the heads of the recruiting units (see contact information on job description).