



**UNIVERSITÉ
DE GENÈVE**

**INSTITUT DES SCIENCES
DE L'ENVIRONNEMENT
DEPARTEMENT F.-A. FOREL**

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University of Geneva, Institute for Environmental Sciences, Energy Efficiency Group

At the Institute for Environmental Sciences there is a vacancy for a

Post-doc or a Senior Research and Teaching Assistant (maître assistant)

on decarbonized heat supply for buildings and industry.

The successful applicant will become member of the Energy Efficiency Group at the inter-faculty Institute for Environmental Sciences (ISE, <http://www.unige.ch/environnement>) which is active in interdisciplinary research in the domains of energy, climate change, water and urban ecology as well as sustainability. The Energy Efficiency Group at ISE is affiliated to the Faculty of Science. The institute represents an enthusiastic, dynamic and international working environment. It offers an interdisciplinary Master programme in Environmental Sciences (MUSE) with a track on Energy.

Description of the research domain:

Energy efficiency and renewables play an important role in the energy and climate strategies implemented by the European Union, by the Swiss federal authorities and by Swiss cantons. Approximately half of all greenhouse gas emissions released in Switzerland are related to thermal energy (heating and cooling). Least-cost and energy efficient decarbonisation options with highest possible acceptance levels need to be identified for this area. Being one of the key options for decarbonising buildings, seasonal thermal energy storage embedded in thermal grids and supplied with renewable sources of heat and cold need to be further studied.

Requirements:

The candidate should have a background in physics, engineering and/or environmental sciences, with strong interest in interdisciplinary research. Candidates are expected to have a solid understanding of decarbonised heating and cooling as well as time and location-dependent modelling at various scales. This calls for pre-existing knowledge and a strong commitment to the further development of skills on advanced statistics, GIS techniques, simulation and optimisation methods.

Applicants for the post-doc position should have at least 1-2 years of post-doctoral experience and an excellent track record in both personally conducting and guiding research. Candidates for the Senior Research and Teaching Assistant should have around three years of experience as post-doc or researcher with a solid publication record and experience in guidance of both PhD and MSc students as well as in

teaching at Master level. Excellent knowledge of English (in writing and speaking) is a necessity, while French language skills are considered as bonus.

Positions and application:

The post-doc or Senior Research and Teaching Assistant is expected to play a key role in the project SWEET-DeCarbCH (WP1 lead) and to co-guide some younger researchers.

The post-doc position is planned for around 2 years, possibly extendable as Senior Research and Teaching Assistant. The appointment period for the Senior Research and Teaching Assistant is 3 + 3 years, offering an excellent basis for a scientific career. While the PhD student and the Research assistant positions are to be filled as soon as possible, the appointment of the post-doc or Senior Research and Teaching Assistant is planned for 1 September 2024. The salary will be in accordance with the regulations at the University of Geneva.

Interested applicants are kindly requested to send a letter describing their motivation and competences next to an up-to-date CV with publication list, overview of teaching activities and transcripts (course load and grades). Applications will be accepted until a suitable candidate will have been found. Please send your application by email to Prof. Martin Patel (martin.patel@unige.ch).