

Institute of Engineering and Management of Grenoble Alpes University





Grenoble INP - UGA is a member of international engineering and management education and research networks. It is widely recognized in national and international rankings.



8 schools + 39 laboratories

8300 students

1 300 teaching, research, administrative and technical staff

Grenoble INP - UGA is a renowned public institution of higher education and research, and a major player in the Grenoble ecosystem. It is the engineering and management institute of Grenoble Alpes University, and plays a leading role in the scientific and industrial community.

Researcher in Molecular and theoretical modeling of ionic transport in batteries

Job reference number	2024-RESMODELIONBATT-LEPMI
Research field	Digital Electronics (Embedded systems design, digital architecture design in disruptive technologies)
Host laboratory	LEPMI (UMR 5279 Grenoble-INP, UGA and CNRS) / <u>https://lepmi.grenoble-inp.fr</u>
Requested profile	First stage researcher (R1)
Location	Grenoble, France
Date of recruitment / contract term	01/09/2024 (12 months)
Contacts	Claire Villevieille claire.villevieille@grenoble-inp.fr

Grenoble INP - UGA is a leading public institution accredited with the French label "Initiative d'excellence". It offers innovative engineering and management programs, with an increasing internationalization of its course offers. The courses are grounded in sound scientific knowledge and linked to digital, industrial, organizational, environmental and energy transitions. The Engineering and Management Institute of Grenoble Alpes brings together more than 1300 staff members (teacher-researchers, lecturers, administrative and technical staff) and 8300 students, located on 8 sites (Grenoble INP - Ense3, Grenoble INP - Ensimag, Grenoble INP - Esisar, Grenoble INP - Génie industriel GI, Grenoble INP - Pagora, Grenoble INP - Phelma, Polytech Grenoble, Grenoble IAE and the INP Prepa). Grenoble INP is also a highly-ranked institution of higher education and research, leading the way in the fields of engineering and management on an international scale. It is a member of a large number of international academic and research networks. It is part of the European University UNITE!.

As part of Grenoble Alpes University, Grenoble INP has associated guardianship of 39 national and international research laboratories and of technological platforms. The research conducted there benefits both its socioeconomic partners and its students. Grenoble INP is at the heart of the following scientific fields: physics, energy, mechanics and materials; digital; micronanoelectronics, embedded systems; industry of the future, production systems, environment; management and business sciences.

Grenoble INP - UGA is an equal opportunity employer committed to sustainability. Grenoble INP-UGA celebrates diversity and equity and is committed to creating an inclusive environment for all employees. All qualified applications will be considered without discrimination of any kind.

Research

Laboratory and researcher direct environment :

The position is available at Laboratoire d'Electrochimie et de Physicochimie des Matériaux et des Interfaces (LEPMI) in collaboration with a research team working at Laboratoire Interdisciplinaire de Physique (LIPhy) and Theory Group at Institute Laue Langevin in Grenoble.

Position description :

A postdoc position (12 months) is available on the molecular modeling of the ionic conductivity of a mixture made of a salt mixed with a polymer confined in a nanoporous solid. By using molecular dynamics on the polymer electrolyte, the mobility of the ionic species i) in the bulk of the polymer matrix and/or iii) in strong interaction with the electroactive material surface will be investigated. The work will be performed in strong collaboration with researchers using experimental techniques. Such combination should allow us to develop a robust framework for ion transport in hybrid systems made up of polymers included in porous electrodes.

Specific requirements or conditions

Proficiency in English and French is required. In addition, international experience will be a decisive asset.

Specifics of the position

The research may be led on 2 locations: Grenoble and St Martin-d'Hères.

Position assigned to a restricted area: NO

(Device for the protection of the scientific and technical potential of the nation, conditioning the appointment of the researcher to the authorization of the Defense Security Officer).

How to apply

Applications must be sent to : <u>claire.villevieille@grenoble-inp.fr</u> (Claire Villevieille) and <u>benoit.coasne@univ-grenoble-alpes.fr</u> (Benoit Coasne)

Application deadline :08/07/2024