



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 + 38 laboratories

8 350 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.

Professor

Research profile field	Physics of integrated devices
Requested job profile	Professor
Ministerial reference for the position	63 PR 0376
CNU Section	63
Job location	Grenoble and Saint Martin d'Hères campus (PHELMA – IMEP laboratory)
Hiring date	01/09/2024 (DD/MM/YY)
keywords	Microelectronics, photonics, electromagnetism

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 8 350 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 38 national and international research laboratories and of technological platforms. The research conducted there benefits both its socio-economic 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.

Teaching

School: Grenoble INP - Phelma

School website: <https://phelma.grenoble-inp.fr/>

Contact: alice.caplier@grenoble-inp.fr

School presentation:

Grenoble INP Phelma is an engineering school of the Grenoble Polytechnic Institute. It offers students a wide choice of courses at the cutting edge of scientific and technological progress: micro & nanotechnologies, instrumentation, energy, innovative materials, information technologies, biomedical engineering, process engineering and the environment. It welcomes more than 1,400 students in 11 engineering courses, including one apprenticeship, and a dozen masters courses. The teaching staff is made up of around one hundred full professors and over 300 part-time lecturers. The administrative and technical staff numbers around fifty. The school has two sites: the Minatec site in Grenoble and the university campus in Saint-Martin d'Hères. While reaffirming its three main pillars of physics, electronics and materials, Phelma is ensuring that the training of its engineering students and masters students evolves in line with changes in careers, linked primarily to the energy transition and the digital transition.

Teaching Profile:

Applied physics is one of the three core disciplines at Grenoble_INP - Phelma. This post will involve teaching in the fields of electronics and microelectronics (physics of integrated components), optoelectronics, electromagnetism and/or integrated photonics.

The selected candidate will be expected to be involved in first-year teaching, for which a common core of physics is offered to our students, or in one of our streams particularly concerned with aspects of applied physics, namely the Iphy (Physical Engineering for Photonics and Microelectronics) and Biomed (Biomedical Engineering) streams, and to some extent the SEI (Integrated Electronic Systems) and MT (Microelectronics and Telecoms) streams.

The school's ambition is to train engineers to become players in the ecological transition. As such, the person recruited should be in a position to suggest ways in which the school's physics courses as a whole might evolve in line with this transition.

He or she should also have made a significant investment in terms of taking on responsibilities within the school (responsibility for the first year or field of study, steering the competency-based assessment project) or at Grenoble_INP level.

Research

Host laboratory: IMEP-LaHC équipe CMNE ou PHOTO

Laboratory website: <https://imep-lahc.grenoble-inp.fr/>

Contact: anne.kaminski@grenoble-inp.fr

Laboratory presentation:

IMEP-LAHC carries out research focusing on integrated devices. This research covers the fields of microtechnology, design models and tools for producing components, techniques for characterising and extracting parameters for analysing their operation and performance, and microsystems and systems for integrative aspects. These studies and research extend from the physics of components to telecoms systems, via microelectronics, radio frequencies, optoelectronics, sensors, photonics, etc. In order to carry out these projects, the laboratory has several characterisation platforms and technological resources (clean room with Renatech+ accreditation for integrated optical technology on glass).

Research Profile:

He or she will work in one of the two laboratory teams, CMNE (Composants Micro Nano Electroniques) or PHOTO (PHOtonique TéraHertz et Optoélectronique). He or she will have recognised expertise in component physics, sensors or integrated photonics. He or she will carry out research activities in line with the themes developed within one of the two teams and/or in the laboratory's cross-disciplinary areas: alternative technologies to CMOS, integrated micro/nanosystems for health and the environment, optoelectronic components, integrated photonics, etc. There are many issues at stake in these fields, including the emergence of quantum technologies, the need to understand the physics of optoelectronic components, the development of biosensors, photonic systems for telecommunications, etc.

The selected candidate will be expected to propose high-level research in the laboratory's areas of research, in order to develop and strengthen local, national and international academic and industrial partnerships.

He or she will take on responsibilities within the laboratory (head of a team or transverse axis, deputy director, etc.) and will participate in the development of scientific policy. You will also be expected to represent IMEP-LAHC in local and national bodies.

The research activity presented in the application must be proven, in particular by international publications.

Specific requirements

The ability to teach in English is imperative, as a number of the school's courses are given strictly in English. International experience would also be an asset.

Administrative activities

The selected candidate will be expected to take on either teaching or research responsibilities from those listed in the job description.

Special features of the post

Teaching may take place at either of the school's two sites: Grenoble (Polygone scientifique) and Saint Martin-d'Hères (Campus est).

How to apply

Applicants must submit their applications on the Galaxie Platform of the French Ministry of Higher Education and Research from the 22nd of February 2024, 10 a.m. (Paris time zone) to the 29th of March 2024, 4 p.m. (Paris time zone), deadline.

Any document sent outside the Galaxie procedure will not be taken into account.

The interview will include simulation/situational exercises.

The details will be communicated when the invitation is sent out. In addition, part of the interview may be carried out in English.