



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

8 300 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.

University Professor Position

Short profile	Design for customization
Body	University Professor
Position number	60 PR 564
CNU Section	60
Location	Grenoble INP - School of Industrial Engineering, G-SCOP Laboratory
Date of recruitment	01/09/2023
Key words	Product design; Mechanical engineering; Customization; Design methods; Sustainable development; Industry 5.0.

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 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 - Industrial Engineering

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

Contact: daniel.brissaud@grenoble-inp.fr, Head of Grenoble-INP Industrial Engineering

Grenoble INP Industrial Engineering trains engineers and managers in industrial engineering for the design and management of supply chains and products for all sectors of the economy. By combining skills in engineering sciences, data sciences, and human and social sciences, the School of Industrial Engineering trains talented individuals who master the fundamentals of science for industry, with soft skills that will enable them to transform industry for the good of society.

Teaching Profile:

The candidate must show an interest in multidisciplinary, industrial engineering, the industry of the future in its global and integrated vision and industrial management. The teaching is articulated in the school's pedagogical project: a systemic and multidisciplinary vision of the company and training, and a pedagogy where the student has agency. In addition, the candidate is expected to demonstrate a high level of environmental awareness in his/her teaching.

The candidate will teach system design and mechanical engineering in the framework of initial training in Industrial Engineering at Bachelor and Master levels, as well as in continuing education.

The candidate will be in charge of coordinating the courses of systems engineering by promoting new approaches in the field of product customization, an important issue for the transformation of industry towards customized products, through user-centered approaches and agile methods. The candidate will also teach mechanical design courses.

The candidate will also be able to design courses in the field of the industry of the future and Industry 5.0 approaches. He/she should be familiar with project-based teaching approaches and should be involved in the management of engineering or innovation projects. He/she will quickly be asked to take on pedagogical responsibilities within the school. He/she will be open to innovative teaching techniques and will be able to teach online. He/she will contribute to the development of technological platforms and digital platforms and will seize the opportunities offered by these platforms in teaching and research. Some courses may be taught in English.

Research

Team : G-SCOP Laboratory (UMR 5272 Grenoble-INP, UGA and CNRS)

CIPP or COSYS or CCI teams

Laboratory website: <https://g-scop.grenoble-inp.fr/>

Contact : peggy.zwolinski@grenoble-inp.fr, Director of G-SCOP

G-SCOP is a multidisciplinary laboratory that responds to the scientific challenges posed by current and future changes in the industrial world. The scope of the laboratory ranges from product design to the management of production

systems, relying on strong skills in optimization. G-SCOP is a reference laboratory in France in the field of production systems (the only CNRS UMR focused on production systems; entrusted by the ANR to lead the reflection on the production systems of the future...) but also internationally, through its research networks (CIRP, Design society...) and its research projects related to industry 5.0 and industrial renewal on a European scale.

The G-SCOP laboratory teams the new Professor will be working with are recognized for their expertise in the field of collaborative design and product life cycle engineering. They are involved in the implementation of new immersive technologies in product development, environmental analysis and eco-design methods, the integration of new manufacturing technologies in product design, the modeling of expertise and collaboration between expertises, collaborative information systems, model-based systems engineering, and the consideration of uncertainties in product design. The objective for these teams is to provide design and organization methods to understand and accompany the evolution of industry and emerging technologies and leading to new forms of consumption and production.

Research profile:

The G-SCOP laboratory is acknowledged for its research in integrated design. The evolution of manufacturing means and the mutation of the industry leads to a customization of products on the one hand and to a redefinition of the production system on the other hand. Current research activities are focused on the identification of scientific barriers and the implementation of models and methods to overcome them. A number of professors are due to retire and the laboratory wishes to continue to be internationally recognized in integrated design by keeping its leadership in this field and by recruiting a professor to lead and develop it.

The mutation of the industrial world linked to the concept of industry of the future and industry 5.0 requires the evolution of design methods by integrating the users' demand for personalized products or services. In such a context, production systems, currently designed for mass production, are moving towards production adapted to demand while respecting the environment. The main scientific obstacles to be overcome relate to the definition of the evolution of design methods for products, production systems and associated services.

The professor will be responsible for defining the scientific strategy to overcome these challenges in collaboration with lecturers who are already working in this field. He/she is expected to be involved in the setting up of national and European projects and to be actively involved in national and international networks.

Posting in a restricted area: YES/NO

(Protection of the nation's scientific and technical potential, conditioning the appointment of the lecturer-researcher on the authorization of the Defense Security Officer).

Specifics and requirements

None.

How to apply

Applicants must submit their applications on the Galaxie Platform of the French Ministry of Higher Education and Research from the 23rd of February 2023, 10 a.m. (Paris time) to the 30th of March 2023, 4 p.m. (Paris time), 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 conducted in English.