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

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<th>Short Profile</th>
<th>Computational security, algebraic computation, cryptology, code theory</th>
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<td>Body</td>
<td>University Professor</td>
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<td>Position N°</td>
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<td>01/09/2022</td>
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<td>Key words</td>
<td>Algebraic computation; cryptology; code theory; cybersecurity</td>
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Grenoble INP – UGA is a university recognized for its academic and research excellence through obtaining 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 school constitutes the institute of engineering and management for Grenoble Alpes University, with its 1300 staff members (teacher-researchers, lecturers, administrative and technical staff) and 9000 students. It 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 40 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 science, digital science; micro and nano-electronics, on-board systems; industry of the future, production systems, environmental science and management.

Grenoble INP - UGA is s 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 - Ensimag
School Website: http://ensimag.grenoble-inp.fr/
Contacts: jean-louis.roch@grenoble-inp.fr, christophe.rippert@grenoble-inp.fr

Grenoble INP-Ensimag is a leading French school in the digital field. It provides high quality theoretical and technological courses in computer science and applied mathematics. It prepares students for careers as digital engineers in many sectors such as information systems, finance, embedded systems, networks, and all industries for design and decision support tools.

Teaching profile:

Ensimag, a recognized school of higher education in digital technology, is recruiting a computer science professor with the motivation and ability to create and take responsibility for courses from the 1st to the 3rd year of engineering, as well as in the Master's program.

La personne recrutée effectuera ses enseignements à Grenoble INP Ensimag en priorité dans les thématiques de The successful candidate will teach at Grenoble INP Ensimag, primarily in the areas of algebra, cryptography, compression, cybersecurity, error correction, corrective codes and code theory. The candidate will have to take responsibility for teaching units in these areas. Basic programming and software skills would be highly appreciated.

He/she will also be involved in the organization and running of Grenoble INP Ensimag's training courses and in the definition of new training offers.

In collaboration with the pedagogical teams in place, he/she will have to be involved in the setting up of project-based teaching and lifelong learning, in particular in the development of training materials through digital technology.

Grenoble INP-Ensimag seeks to train all of its students in responsible and ecologically efficient digital technology; we expect these aspects to be taken into account in the curriculum, particularly with regard to ethical aspects. In addition, a strong involvement in the school's collective responsibilities is expected.

Research

Host Laboratory: LJK (UMR 5224 Grenoble INP - UGA, UGA et CNRS)
Lab’s Website: https://www-ljk.imag.fr/
Contacts: jean-guillaume.dumas@univ-grenoble-alpes.fr

The Jean Kuntzmann Laboratory (LJK) is a research laboratory in applied mathematics and computer science that brings together teams of probabilists-statisticians, specialists in image and vision processing, and specialists in scientific computing.

Thanks to this multidisciplinarity, it is a rich structure in terms of research themes but also in terms of human resources. This diversity is what keeps the LJK dynamic and the fundamental challenge for its management is to maintain this emulation through a policy of cohesion within the structure.

The LJK sustains strong links with companies, in particular through the MaiMoSiNE and AMIES structures.

Research profile:
Over the last few years, the laboratory has developed an innovative theme in the field of secure outsourcing of calculations and data. The objective of this recruitment is to broaden expertise in the field of cryptology, exact and symbolic computation, security in the broadest sense, code theory and information protection (security of computer networks, infrastructures and data) to the security of intensive, high-performance or outsourced computations (guarantee of anonymity and protected access to remote data, safety, verification and certification of results, etc.).

The laboratory is seeking to recruit a faculty member in 2022 whose research activities could fall within one or more of the following areas: Cryptology; Correcting codes; Information theory; Secure multiparty computing; Security and reliability of distributed or outsourced computation; Algebraic computation; Formal and symbolic computation; Algorithmic number theory; Exact computation; Homomorphic computation; Security protocols; Blockchain; Security architectures, PKI; Cybersecurity; Privacy, anonymity; Trusted computing; Fault tolerance; Verification and certification; and their applications.

Position assigned to a restricted area: NO
(Device for the protection of the nation's scientific and technical potential, conditioning the appointment of
(intensive, high-performance or outsourced research (guarantee of anonymity and protected access to remote data, operational safety, verification and certification of results, etc.).

Specific Requirements or Conditions
The administrative tasks related to the position of professor: responsibilities of teaching or research units, responsibilities of programs or years.

How to apply
Applications must be submitted on the Galaxie platform of the Ministry of Higher Education and Research between Thursday, February 24, 2022, 10:00 a.m. (Paris time) and Thursday, March 31, 2022, 4:00 p.m. (Paris time), the closing date.

Any submission received outside the Galaxie platform will not be taken into account.

When the selection committee interviews the candidates, they will be asked to take part in a professional teaching situation; the details will be communicated when the invitation is sent out. In addition, part of the interview may be conducted in English.