

University of Grenoble

University of Grenoble (UG) is one of Europe's leading universities. It offers its students high-quality education, providing them with a passport to the professional world.

Our university has acquired this international status through the quality of its teaching and the excellence of its research, much of which takes place in collaboration with major international and national organisations. Moreover, the attractive environment of the university city at the gateway to the Alps, with its large scientific community, has encouraged many international companies to move here. Our priority is to expand our scientific disciplines in order to foster innovation.

UG has also become increasingly involved in the development and transfer of new technologies and in supporting research projects right through to the stage when they begin to provide economic benefits. Through its research and teaching activities UG is striving to meet the current needs of society, whether in respect of students' professional careers, lifelong learning, the production and dissemination of scientific knowledge or the creation of wealth and employment.



PERSYVAL-LAB SCHOLARSHIPS

- FOR A MASTER DEGREE
- FOR A PHD THESIS



<http://persyval-lab.fr>

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UNIVERSITÉ DE GRENOBLE



Persyval-Lab

Pervasive systems and algorithms at the convergence of the physical and digital worlds

A major challenge that will expand the frontier of computer science and system engineering lies within our capability to address this convergence from the point of view of system design. Four types of interplay between the physical and digital worlds will drive major technological innovations in the next decade:

Digital systems control the physical world. Algorithms and computing systems become embedded and pervasive in the physical environment.

Digital systems are constrained by the physical world. The design of software and algorithms increasingly requires meeting physical constraints.

The physical world is augmented with digital content. Our world increasingly spans the digital and physical worlds.

The physical world is digitally simulated. Understanding the physical world and being able to predict its features and behaviour is crucial.

Education

We propose to strengthen our international standpoint and capacity to attract students by offering novel multidisciplinary lab-oriented courses and encourage multidisciplinary Ph.D.'s based on the concept of "double supervision". To be competitive, the Persyval-lab offers grants at the Master level and relies on courses and lectures given by renowned researchers.

Engineering schools: Ensimag, Phelma, ENSE3, Industrial Engineering, Polytech'Grenoble

University departments: UFRIM²AG - Informatics and Applied-mathematics, Mathematics and Physics, University Institute of Technology (IUT)

Doctoral schools: MST2I (Mathematics, Information Sciences and Technologies, Informatics), EEATS (Electronics, Electrotechnics, Automatic and Signal treatment), EDICE (Health, Cognition and Environment)

Scholarships for a master degree

University of Grenoble launches a scholarship program for attracting excellent candidates in the second year of one of its Masters related to the Persyval-lab disciplines: Computer Science, Control, Mathematics or Signal Processing.

This grant of €8,000 is intended to support excellent students whose income is insufficient to cover living expenses and who wish to obtain a master degree from University of Grenoble and then to apply to a doctoral program within one of the laboratories associated with Persyval-lab. A maximum of 10 grants will be allocated for the 2013-2014 academic year.

Eligibility criteria

The program is open to all students applying for a Master program in Computer Science, Control, Mathematics or Signal Processing (see the list of eligible programs below).

Candidates must have successfully completed the first year of a Master's Degree program or obtained an equivalent qualification (e.g., engineering degree) recognised by UG, and show a strong motivation for research. Students who are selected will be registered at UG and will be able to obtain the Master's Degree at UG.

Language requirements: TOEFL score higher than 79-80 (internet based) or higher than 6 for the IELTS (or an equivalent test) for english courses, level equivalent to B2 for french courses.

Application procedure

Apply to University of Grenoble by going to Master's Degree course application.

Fill in the application form for Persyval-lab Master grant, attach the requested documents and send these documents to our education board (<https://persyval-calls.imag.fr>).

The application deadline for the grant is May 23th, 2013.

Eligible Master programs

M2 specialties taught in French:

- Informatique,
- Mathématiques, Informatique et Applications,
- Mathématiques Fondamentales,
- Signal, Image, Parole, Telecoms

M2 specialties taught in English:

- Informatics at Grenoble (MoSIG),
- Mathematics, Informatics and Applications (International track),
- Security, Cryptology and Coding Information Systems,
- Systems, Control and Information Technologies (MiSCIT)

Scholarships for a PHD thesis

5 Ph.D. scholarships are available at Persyval-lab in 2013, provided that the thesis is supervised by advisors hosted by (at least) two different labs of the Labex (GIPSA-lab, G-SCOP, INRIA Rhône-Alpes, IF, CEA LETI, LIG, LJK, TIMA, TIMC, IMAG, Verimag).

We expect proposals describing a Ph.D. topic clearly related to one of the four research workpackages of the Labex and including the resume of the candidate Ph.D. student.

One of the scholarships can be assigned to an "open" topic (without necessarily a direct link to the workpackages) that still matches the global objectives of Persyval-lab and attracted an excellent potential Ph.D. student.

The clarity of the proposed collaboration between the two labs, the complementarity of the Ph.D. advisors and their motivation for close and effective supervision of the student will be of prime importance in the proposal evaluation.

The scholarship includes 3 years of Ph.D. salary (the monthly amount is the same as a ministry Ph.D. scholarship) as well as € 5000 per year for the student's environment (travel expenses, computing facilities etc.).