UNIVERSITY OF GRENOBLE

The University of Grenoble (UGA) 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.

UGA 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 University of Grenoble 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.

CONTACT

ADMINISTRATIVE OFFICE
LabEx PERSYVAL-Lab
https://persyval-calls.imag.fr/en/contact

SCIENTIFIC CONTACT
Education Board
LabEx PERSYVAL-Lab
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https://persyval-lab.org

UNIVERSITÉ Grenoble Alpes

PERSYVAL-Lab
Scholarships
for a master degree

https://persyval-lab.org

PERSYVAL-Lab

PERVASIVE SYSTEMS
AND ALGORITHMS
AT THE CONVERGENCE
OF THE PHYSICAL
AND DIGITAL WORDS

Grenoble INP

ANR

PERSYVAL-Lab

UNIVERSITÉ Grenoble Alpes

PERSYVAL-Lab

ABOUT PERSYVAL-LAB

A major challenge that will expand the frontier of computer science and system engineering lies within our capability to address the convergence of physical and digital worlds from the point of view of system design. The laboratory of excellence (LabEx) Persyval-Lab focuses on four types of interplay between the physical and digital worlds that 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. 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: UFR IM²AG - Informatics and Applied Mathematics, Mathematics, UFR PhITEM - Physics, University Institute of Technology (IUT)

- Doctoral schools: MST2I (Mathematics, Information Sciences and Technologies, Informatics), EEATS (Electronics, Electrotechnics, Automatic and Signal treatment), EDISCE (Health, Cognition and Environment), I-MEP2 (Industrial Engineering-Materials, Mechanics, Energy, Chemical and Process Engineering)

SCHOLARSHIPS FOR A MASTER DEGREE

University of Grenoble (UGA) offers a scholarship program to attract 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 and then to apply to a doctoral program within one of the laboratories associated with PERSYVAL-Lab. A maximum of ten grants will be allocated for the 2019-2020 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 UGA and show a strong motivation for research. Students who are selected will be registered at UGA (or Grenoble INP) and will be able to obtain the Master's Degree at UGA (or Grenoble INP).
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.
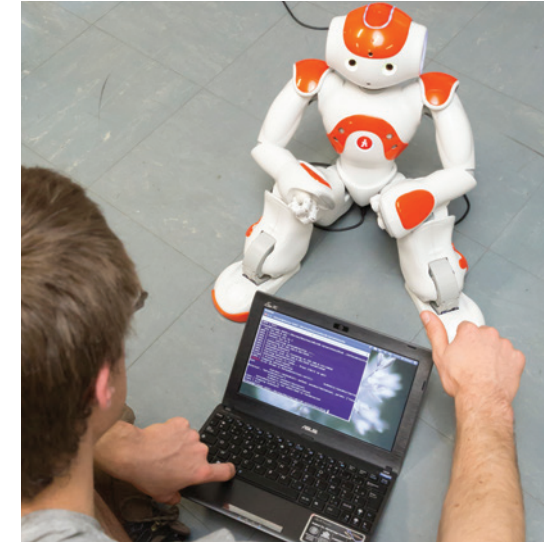
APPLICATION PROCEDURE

1st : Apply to the Master's Degree on-line application
2nd : 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 21st, 2019.

ELIGIBLE MASTER PROGRAMS

M2 specialties taught in French or in English
- Mathématiques Fondamentales
- Master Microéléctronique Intégration des Systèmes Temps Réels et Embarqués (MISTRE)

M2 specialties taught in English
- Master of Science in Informatics at Grenoble (MoSIG)
- Master of Science in Industrial and Applied Math (MSIAM)
- Cybersecurity
- Master in Systems, Control and Information Technologies (MiSCIT)
- Signal & ImaGe processing Methods & Applications (SIGMA)
- Operations Research, Combinatorics and Optimization (ORCO)