

# Graduate School of Cognitics (applied cognitive science and technology)

The Graduate School of Cognitive Engineering is a Bordeaux INP engineering school and is a member of the INP Group and the Conférence des Grandes Ecoles. Its unique programme in France provides engineers with dual expertise in Information and Communication Sciences and Technology and Humanities and Biological Sciences.



# A Word from the Director

Human Autonomy Teaming (HAT) has now demonstrated its superiority over artificial systems alone, some of which have already demonstrated their superiority over man for a long time: concrete applications of artificial intelligence and big data, industrial automation, robotics, rapid detection in critical situations, the use of smart grids are just some examples. However, better than the most efficient autonomous systems or the best human expert, man-machine teaming is the most effective solution for balanced decision-making, crisis management, monitoring operations and solving complex problems. Cognitics aims to understand and improve the flow of human-machine symbiosis, in terms of performance, substitution, safety, ease and comfort, and augment man through these technologies: situational awareness, ability to understand and manage complex constraints, whether environmental, industrial, individual and communities.



## 1 engineering programme

COGNITICS : applied cognitive sciences and cognitive technology

1 three-year engineering degree (Master Degree)

#### 2 university diplomas

- Cognitics and Human Factor Engineering
- Big Data and Statistics for Engineers

ENSC is a graduate school that trains generalist engineers who are able to work on the various aspects of Human-Autonomy teaming. ENSC engineers are experts who prioritise skills and ability, an interdisciplinary approach, openmindedness and human values.

ENSC is the only graduate school delivering an engineering master degree in applied cognitive science and technology. Its areas of focus apply to industry, defence, transport, disability, augmented intelligence with AI, progress of "the smart life" and workplace safety for everyone, mobility, healthcare, human enhancement, everyday life...

## BORDEAUX INP















\*Groupe Bordeaux INP Nouvelle-Aquitaine



#### Some Major Areas of Research

Cognitive engineering, artificial intelligence, cognitive psychology, biomonitoring, stochastic and statistical modelling, aerospace science, robotics and cobotics, ...

#### **10** Associated and Full Professors

**10** PHDs, Post-Docs

**1** JOINT LAB WITH THALES (HEAL)

**1** INDUSTRIAL CHAIR (New AQUITAINE REGION) Technological Systems for Human Enhancement

#### **1 COGNITION INST. (CARNOT "TREMPLIN")**



Employment Prospects

75 graduates per year77% of students find a jobbefore leaving school

Gross annual salary €34,000



Students' association Sports' association Arts' association Junior enterprise Cognitics alumni network Learned Society IRASCA



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#### BORDEAUX-INP.FR/EN



ENSC offers engineering programme with a professional focus and close ties to the socioeconomic world.

#### **80** Lecturers from the industrial world **10** Hosted companies

**30** COMPANIES INVOLVED in the school's boards and committees and in determining the school's strategy.

# Student testimonial

I graduated in 2009 and cofounded the Akiani agency, which specialises in user experience (UX research, UX design, UX strategy) and human expertise (Human factors, neuroergonomics, risk management). We provide support for our clients with creating new experiences and determining uses for their future products and services.

Axel Johnston - Class of 2009 UX Lead & Associate Director -Akiani



