Bretagne INP - ENIB
ENSTA BRETAGNE
IMT ATLANTIQUE
UNIVERSITE DE BRETAGNE OCCIDENTALE (UBO)

Master in Computer Science

Intelligent and Autonomous Interactive Systems (SIIA) by research

Aims

The SIIA specialization is a joint degree between Brest's leading higher education establishments (UBO, ENIB, ENSTA Bretagne and IMT Atlantique) which have come together to build a shared programme based on their cutting-edge knowledge in Intelligent and Autonomous Interactive Systems.
This Master by Research places an emphasis on research skills by giving students the opportunity to follow 3 academic modules among 5, and do a research project supervised by a local researcher. It can give a useful insight on what studying for doctorate entails, whilst at the same time allowing to earn a valuable masters level qualification.

The main theme of the programme focuses on computer systems related to human uses. More specifically, the notion of interaction between artificial systems and humans will be studied, both in the case of humans immersed in complex systems and humans designing and creating such systems. Current knowledge of artificial intelligence, learning, cognitive science, modelling and verification, virtual reality, robotics, sensor networks, modelling and simulation through multi-agent systems are presented in the 8 course units. The classes are taught by researchers from the computer science departments at UBO, ENIB, ENSTA Bretagne and IMT Atlantique.

Skills acquired

On course completion, graduates will be capable of:
● Contributing to a research and development project within a company and leading a laboratory-based research project for instance for a PhD (autonomy, open-mindedness)
● Conducting scientific and technical intelligence and sharing/disseminating the knowledge acquired
● Setting up intelligent autonomous systems which may include human computer interaction.

Prerequisite

Each candidate must have a research project in the M2 SIIA topics, and a supervisor belonging to the Lab-STICC.
The research project must be built ahead of your application. We recommend you to identify a suitable supervisor to discuss your research idea before you apply to ensure that we have the right specialist area you are interested in, and that this area is within the Master's topics.
The web site of the Lab-STICC Interaction Department is a good place to start to find a supervisor.

Applications

With a maximum of 24 places on this course each year, the admissions process is selective and application-based.
You will need to show evidence of: Certified minimum level of C1 in English (850 TOEIC points) (or native language); Certified Bachelor's degree (Licence, 180 validated ECTS or equivalent) and transcripts of grades; Certified ongoing Master's degree (60 validated ECTS or equivalent) and transcripts of grades; Motivation letter and CV; Short description of the research proposal (1-3 pages); **Support letter from the project local supervisor**

Applications must be submitted in PDF format , bosser@enib.fr by the deadline date (see **Key Dates**)

Content

Module Name	Description	Semester	Taught Hours	ECTS
3 modules to choose from:		9	144	12
IEVA	Modelling of virtual environments, behaviour models of autonomous entities, Embodied Conversational Agents, procedural generation	9	48	4
RVRA	Interactive Systems, Augmented and Virtual Reality 9 48 4	9	48	4
I2SA	Collective Intelligence, Interactions and Autonomous Systems : Multiagent Systems, interactions and robot swarms	9	48	4
MCSI	Modelling, Design and Ergonomics for Interactive Systems	9	48	4
IML	Interactive Machine Learning and Deep Learning	9	48	4
FLE	French as a Foreign Language	9	30	3
Research Project	A research project within the Master topics, supervised by a local researcher	9	155	15
Scientific Methodology	Experimental validation of research hypothesis, Evaluation of Interactive Systems	9	24	2
Bibliography	Conducting a scientific survey	10	8	5
Internship	An internship within the Master topics, in France or abroad	10	5 to 6 months	20

More information: https://siia.univ-brest.fr/SIIAByResearch/

Internship

Mandatory internship (20 weeks)
Start of internship: mid-January
Duration: 20 weeks Minimum of 5 months in a research laboratory or company (preferably in a R&D department).

Career opportunities

PhD in Computer Science, public research sectors, Research and Development departments, computing service providers, business IT departments...

Learning environment

- Specializations related to regional priorities, with high-level teaching geared mainly towards research and development positions.
- Links with research activities of a leading laboratory: Lab-STICC (CNRS UMR 6285).
- Teaching delivered through a combination of lectures and tutorials with a strong emphasis on personal and team projects.
- Teaching delivered in English when international students are present.

Application file

The full application file is composed of:

- The application form, filled.
- A motivation letter detailing how your previous experiences and your professional goals relate to your application for this specific programme, in French or English.
- A Curriculum Vitae, (with details of the previous courses)
- Official academic transcripts (including if available class ranking) for each year
- Recommendation letter from the Tutor in charge of the first year of the master, in French or English (not necessary for ENIB's applicants)
- Copies of diplomas
- An English certification score/result (for ENIB's students, use the above part of the form instead)
- Short description of the research project defined with a local tutor (1-3 pages)
- Support letter from the local tutor

Please send the application electronically to scolarite@enib.fr with the subject "**Master SIIA ENIB Application**"

Inquiries:

Applications contact: scolarite@enib.fr
Pedagogy, admissions contact at ENIB: Anne-Gwenn Bosser: bosser@enib.fr

Non-contractual information. 5-year course accreditation by French Ministry
Last update: 10 December 2025

Applicants outside of France: international@enib.fr
Master website: https://siia.univ-brest.fr/w/index.php/Accueil

Key dates

Application period: **5 May to 5 June 2026**
Notification of acceptance: beginning of July
Classes begins: September
Classes end: February
Internship period: mid-February -> mid-July (20 weeks)