Admission requirements and thesis offers

Doctoral students have dual status as an employee and a student. They receive a minimum salary for 3 years and are registered as doctoral students at IMT Atlantique. They are also affiliated with the doctoral college related to their thesis topic and to a research laboratory.

Each year, IMT Atlantique offers a number of selective doctoral contracts, both in France and in dual supervision programs abroad, as well as the possibility of being recruited via European calls for projects (such as LOWCOMOTE).

If you have a research master's degree, an international master's degree, a graduate engineering diploma, or equivalent studies abroad and you are motivated by our specialties, please consult our current thesis offers.

Each year we propose 70-75 thesis offers.

Feel free to consult the research projects to find out more.

For more information

Sciences and business
All of our PhD students benefit from scientific supervision along with additional disciplinary or interdisciplinary training in conjunction with the University Research Establishments (EUR) and Doctoral Colleges (ED) and training courses offered by the doctoral colleges of the Brest-Nantes-Rennes sites. IMT Atlantique is a major contributor to the training courses on offer, particularly in the areas of entrepreneurship, support for professional projects and the skills needed in the workplace (communication, marketing and management, project management, patent development, software, languages, etc.)

Lecturer-researcher roles
All of our PhD students benefit from pedagogical support from the CARAE pedagogical center to help them get to grips with teaching. If you are a trainee at the ENS, for example, you can teach in our engineering or master's courses and validate your agrégation.

Current Thesis offers

Thesis offers
Elaboration of a decontamination process for radioactive effluents

Elaboration of a decontamination process for radioactive effluents

- Location: Nantes
- Advisor: Abdesselam ABDELOUAS
- Application Deadline: June 2021
Machine learning for robust AIS satellite receivers

- Location: Brest
- Partnership: Kinéis, CNES, TéSA
- Contacts: Frédéric Guilloud: frederic.guilloud@imt-atlantique.fr & Karine Amis: karine.amis@imt-atlantique.fr
- Applications will be processed regularly

Alteration of iodine bearing glass matrix in vapor and aqueous phases: combining experimental and geochemical modeling on the evaluation of the chemical durability

- Thèse en partenariat avec le CEA
- Campus: Nantes, laboratoire SUBATECH
- Contacts: Abdessalam Abdelouas, Lionel Campayo, Tomo Suzuki
- Date de fin de candidature: juin 2022

Analyse aveugle de signaux de communications pour le renseignement satellitaire

- Location: Brest
- Département MEE
- Contacts: Sébastien HOUCKE, François-Xavier SOCHELEAU & Sylvain MERLET
- Application Deadline: 31 juillet 2022.

Joint design of compression techniques for deep neural networks and low-energy processors for event-based computer vision.

- Campus: Brest
- Département MEE
- Contact: Matthieu ARZEL
- Date de fin de candidature: 25 avril 2022.
PhD Mutual representation of remote collaborative augmented environments

- Département INFO
- Contact : Guillaume MOREAU
- Cifre PhD with Orange
- Location : Rennes
- Deadline application : 24 juillet 2022

Combination of physics-based models and Machine-learning for multi-energy systems modeling

Combination of physics-based models and Machine-learning for multi-energy systems modeling

Campus : Nantes
Département : DSEE
Contacts : Bruno LACARRIERE et Mohamed Tahar MABROUK
Date de fin de candidature : 8 mai 2022

Brain Connectivity in Neurofeedback based Stroke Rehabilitation

Brain Connectivity in Neurofeedback based Stroke Rehabilitation

- IMT Atlantique location : Brest
- Departement MEE
- Contacts - Advisors :
  - Giulia Lioi : giulia.lioi@imt-atlantique.fr
  - Nicolas Farrugia nicolas.farrugia@imt-atlantique.fr
  - Pierre Maurel pierre.maurel@irisa.fr
  - Julie Coloigner julie.coloigner@irisa.fr
- Deadline application : Août 2022

Longitudinal follow-up of liver metastases from colorectal cancer using artificial intelligence

Longitudinal follow-up of liver metastases from colorectal cancer using artificial intelligence

- Location IMT Atlantique campus : Brest
- Departement ITI
Cross-modality learning for tumor segmentation in dosimetric planning

Cross-modality learning for tumor segmentation in dosimetric planning

Location IMT Atlantique campus: Brest
Departement ITI
Advisor: pierre-henri.conze@imt-atlantique.fr
Deadline application: 30 mai 2022

PHD Position in Coding Theory and Machine Learning

PHD Position in Coding Theory and Machine Learning

IMT Atlantique Location: Brest
Laboratory: Labsticc
Contact: elsa.dupraz@imt-atlantique.fr
Deadline application: 10 juin 2022

Learning to design better error-correcting codes and decode them smarter

Learning to design better error-correcting codes and decode them smarter

IMT Atlantique's Location: Brest
Laboratory: Labsticc
Contacts: elsa.dupraz@imt-atlantique.fr et raphael.lebidant@imt-atlantique.fr et charbel.abdelnour@imt-atlantique.fr
Deadline application: 10 juin 2022

Simplification of energy network models through AI

Simplification of energy network models through AI

Location: Nantes
Contacts: Bruno Lacarrière: bruno.lacarriere@imt-atlantique.fr
Patrick Meyer: patrick.meyer@imt-atlantique.fr
Contract start Date: october 2022

Reconfigurable intelligent surfaces for millimeter wave communications in metros
Reconfigurable intelligent surfaces for millimeter wave communications in metros

- **Location**: Brest
- **Département**: MEE
- **Contacts**: Charlotte Langlais: charlotte.langlais@imt-atlantique.fr et Marion Berbineau: marion.berbineau@univ-eiffel.fr
- **Deadline application**: June, 1st juin 2022

Bone quality estimation by 3D ultrasound: A learning approach for bone surgery planning applications

**Bone quality estimation by 3D ultrasound: A learning approach for bone surgery planning applications**

- **Location**: Brest
- **Département**: ITI
- **Collaboration**: avec University of Cape Town
- **Contact**: Valérie Burdin: valerie.burdin@imt-atlantique.fr
- **Contract Start Date**: September 2022

Modélisation du référentiel commun pour analyser la collaboration en environnement virtuel

**Modélisation du référentiel commun pour analyser la collaboration en environnement virtuel**

- **Campus**: Nantes
- **Département**: DAPI
- **Laboratoire**: LS2N
- **Contacts**: mathieu.chollet@imt-atlantique.fr - cedric.fleury@imt-atlantique.fr - cedric.dumas@imt-atlantique.fr
- **Date de fin de candidature**: juin 2022

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