

MASTER

Neuroscience (NeuroBIM)

Program factsheet

ACADEMIC COOPERATION

Collaboration with:

- › Neurasmus consortium (Erasmus+ Master program of Neuroscience).
- › University of Tsukuba (Japan).
- › Other partner universities from the USA, Canada, Europe.

ADMISSION REQUIREMENTS

Candidates must fulfill the following requirements:

- › Hold a Bachelor's degree (180 ECTS) or equivalent degree in biology, biochemistry, biomedical sciences, medical studies, pharmacy, cognitive sciences or psychology with a strong interest in Neuroscience.

- › Candidates with a Bachelor's degree in another subject (chemistry, physics, maths, computer science) must provide documented interest in the field of Neuroscience.

- › Excellent grades are expected.

LANGUAGE REQUIREMENTS

Proficiency in English is required. Candidates should have adequate knowledge of written and spoken English, equivalent to B2 according to the CEFR.

LEVEL

Master degree.

PROGRAM DURATION

2 years (120 ECTS).

TUITION FEES

Master tuition fees applicable for the University of Bordeaux.

SCHOLARSHIPS

- › International mobility for traineeships is supported by Aquimob mobility scholarships and NeuroBIM (Bordeaux International Master of Neuroscience) IdEx grants.
- › Students completing their traineeship in a laboratory of the University of Bordeaux receive a monthly stipend (around 500€) during the traineeship.

Program outline

High standards

The Bordeaux International Master of Neuroscience emphasises training in cutting-edge techniques in all major topics of brain research, from molecules to cognition. Its main objective is to foster Neuroscience education and train new brain scientists, by offering a unique interdisciplinary and integrated approach from normal brain function to brain disorders.

Excellent teaching

In Bordeaux, about 30 professors and lecturers in Neuroscience are involved in teaching as well as many

neuroscientists and colleagues specialized in psychology, cognition, modeling, physiology, genetics, medicine, brain imaging, etc.

Top research / traineeships

Neuroscience in Bordeaux has grown over the last 15 years to become one of the largest Neuroscience scientific communities in France and in Europe, with over 600 people working in the various Neuroscience laboratories of the University of Bordeaux.

In order to meet the most important challenges facing Neuroscience research, all these laboratories are grouped within a virtual institute,

called the Bordeaux Neurocampus, a multidisciplinary consortium of world-renowned scientists. Bordeaux Neurocampus offers, together with our international academic partners, excellent opportunities for traineeships.

Interaction with the professional sector

Students have access to Pharma multinationals for traineeships through internationally oriented consortia such as Pierre Fabre, Sanofi-Aventis, Glaxo-SmithKline etc.

Program structure

International mobility is highly recommended for at least one of the two traineeships. Mobility fellowships are provided upon application.

Year 1:

Semester 1: September-January (30 ECTS)

Compulsory courses

- › Scientific Communication (3 ECTS)
- › Statistics and Neural Modelling (3 ECTS)
- › Tutored Project (3 ECTS)
- › Functional Neuroanatomy (5 ECTS)
- › Neurophysiology (4 ECTS)
- › Molecular Neurobiology (4 ECTS)
- › Neuropharmacology (4 ECTS)
- › Higher Brain Functions (4 ECTS)

Semester 2: January-June (30 ECTS)

- › Laboratory Internship

Year 2:

Semester 3: September - January (30 ECTS)

Compulsory courses

- › Research Project Literature Survey & Methodology (9 ECTS)
- › Drug Discovery & Pharmaceutical Industries (3 ECTS)

Optional courses

- › Current Research in Cellular and Molecular Neurobiology (6 ECTS)
- › Cognitive Neuroscience (6 ECTS)
- › Pathophysiology of Neurological & Psychiatric Diseases (6 ECTS)
- › Neural Networks (6 ECTS)
- › Addiction (6 ECTS)
- › Behavioural Studies in Neuroscience (6 ECTS)
- › Pre-clinical and Clinical Neuropharmacology (6 ECTS)
- › Advanced Topics in Cellular Neuroscience Imaging (6 ECTS)

Semester 4: January-June (30 ECTS)

- › Master Thesis Project

Strengths



Advanced scientific education and training with innovative and interdisciplinary brain research methodology.



Training through original research.



Small classes and close contact with faculty staff.



Opportunities for international mobility.

→ And after?

- › After graduation, students have access to career opportunities in the industrial sector, in clinical research or may carry out further fundamental research as PhD students.

How to apply?

Master / Year 1:

- › French & international students, consult the website:
<https://neurobim.u-bordeaux.fr/how-to-apply.html>

Master / Year 2:

- › French students, through the Apoflux platform (University of Bordeaux)
- › International students, consult the website:
www.u-bordeaux.com/Studying/Applying-Registering/Outside-an-Exchange-Program

Contact

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<https://neurobim.u-bordeaux.fr/>

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STARTS **TODAY**

