FAST FACTS

- In-depth **6-month** course (30 ECTs)
- Taught in **English**
- **Small-scale** interactive education
- Close **interaction with experts** in the field
- Access to cutting edge **research facilities**
- Gain **hands-on experience** with different research techniques

PRACTICAL INFORMATION

- From September 2025 to March 2026
- 2 teaching days (Monday-Tuesday, ~8h30-18h)
- Most courses organized at the Ghent University Hospital Campus
- Tuition fee: €3450
- Application deadline: 09/05/2025
- **Complete the application form** (see 'how to apply'), where you can upload all required documents

Scan for

more info

CONTACT INFO

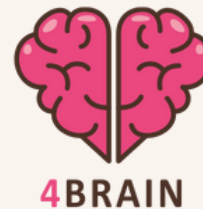**Program director**
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4BRAIN

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FACULTEIT GENEESKUNDE EN
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The Ghall - UGent
Department of Head and Skin

POSTGRADUATE STUDIES IN NEUROSCIENCE AND BRAIN HEALTH

"If the human brain were so simple that we could understand it, we would be so simple that we couldn't"

~ Emerson Pugh ~

ABOUT THE COURSE

Worldwide, 43% of the population is affected by a brain disorder. To prevent brain disorders and develop new treatment options, we need a better understanding of the healthy brain, the diseased brain and the drivers influencing our 'brain health'.

This postgraduate course offers broad theoretical knowledge as well as hands-on experience providing you with all requirements to perform state-of-the-art neuroscientific research in the field of brain health.

THE PROGRAM

The healthy brain
- Neuroanatomy
- Neurophysiology
- Brain functions
- Brain health

Lecturer-in-charge: Prof. dr. Paul Boon

The diseased brain
- Neuroinflammatory diseases
- Headache and pain
- Dementia
- Stroke
- Epilepsy
- Movement disorders
- Disorders of consciousness
- Brain tumors

Lecturer-in-charge: Prof. dr. Veerle De Herdt

Research methods in neuroscience
- EEG
- (f)MRI
- PET/SPECT
- TMS
- Neurogenetics
- Photometry
- Opto- and chemogenetics

Lecturer-in-charge: Prof. dr. Robrecht Raedt

Neuromodulation
- Invasive neuromodulation techniques (DBS, VNS)
- Non-invasive neuromodulation techniques (tES, tVNS, PNS, TMS, TUS)

Lecturer-in-charge: Prof. dr. Kristl Vonck

Neuropharmacology
- Radiopharmacology
- Drug development

Lecturer-in-charge: Prof. dr. Filip De Vos

Applied neurosciences
- Neuro-economics
- Neurotechnology
- AI in neuroscience
- Brain - computer interface (BCI)
- Basic programming
- Health data in the future
- Data management and analysis, statistics
- Science communication
- Awareness, advocacy and fundraising
- Clinical trial development
- Valorisation
- Neuro-ethics and philosophy
- The role of neuroscience in human resources
- Global brain health
- Neuropsychology

Lecturer-in-charge: Prof. dr. Thomas Tarnaud

ADMISSION REQUIREMENTS

You obtained a Master's degree in:
- Biomedical sciences
- Biochemistry and biotechnology
- Bioscience engineering
- Biomedical engineering
- Pharmaceutical care
- Drug development
- Pharmaceutical engineering
- Biology
- Psychology
- Medicine
- Veterinary medicine
- Speech Language and Hearing Sciences
- Nursing and midwifery
- Rehabilitation Sciences and Physiotherapy
- Physical Education and Movement Sciences

HOW TO APPLY

Complete the application form, where you can upload your **diploma*, grade transcript, CV** and **motivation statement** before 09/05/25**. Your application will be evaluated and the selection result will be communicated within 4 weeks after your submission.

Scan to apply

To ensure close interaction between teachers and students, a maximum number of 15 students will be selected. Subscriptions will be closed once this amount is reached.

*if you're still enrolled in your masters, please provide a proof of enrolment and grade transcript.
**describe why you want to enroll in this program, your current motivation and future perspectives in a letter or 5min video.