MSB Medical School Berlin
Hochschule für
Gesundheit und Medizin

Cognitive Neuroscience M.Sc.

Faculty of Natural Sciences

Quick overview

Start of program
October 1 (winter semester)

Tuition fees
795 euros/month

Degree
Master of Science

Language of instruction
English

Type/duration of program
Full-time/4 semesters

Enrollment fee
One-time fee of 100 euros

Practical experience
Research internship

What is cognitive neuroscience?
Where psychology, the brain, and technology converge

Cognitive neuroscience investigates how perception, thoughts, emotions, and consciousness emerge in the human brain. Using experimental methods and modern technologies, the field explores the neural basis of human experience and translates scientific findings into evidence-based medical applications and technological innovations – from artificial intelligence and precision medicine to novel wellbeing products.

Why study cognitive neuroscience?
A future-oriented discipline with social relevance

The English-language master's program in cognitive neuroscience combines psychology, neuroscience, and data-driven technologies. Students learn to conduct research independently and responsibly and develop a deep understanding of the interface between human consciousness and technical applications. The master's program is aimed at anyone who combines scientific curiosity with methodological precision and wants to actively contribute to innovations in medicine, technology, and research.

The program offers:

- Admission without a grade-based cutoff, selection via interview
- Clear study structure and individual support
- Targeted exam preparation
- Preparation for doctoral studies as well as demanding professional fields

How is cognitive neuroscience studied at MSB?
Research-oriented, data-based, practical

The master's program focuses on experimental work and the analysis of complex data. Students learn to measure and evaluate neural and physical processes and interpret them in a scientific context.

The course content includes

- Experimentation and data analysis
- Anatomy, physiology, and biochemistry of the central nervous system
- Neurocognitive methods such as EEG, eye tracking, TMS, and (f)MRI
- Programming, data analysis, and visualization
- Functions of human consciousness
- Neurostimulation for medical applications
- Good scientific practice in empirical work

Our focus: Methods, data, consciousness, and neurostimulation

- Planning and conducting experiments according to the highest research and ethical standards
- Practical application of neurocognitive measurement methods and data-based analysis
- Development of a scientific research personality
- Precision medicine: Use of individual differences to optimize treatments
- Empirical consciousness research and targeted neurostimulation

Clearly structured: Focused on research and development

The course is clearly structured and consistently focused on research and development: In the first year, students explore key topics in cognitive psychology in depth and develop data analysis skills. In the second year, students develop individual areas of specialization, train practical laboratory skills, and apply these in their master's thesis.

Team-based learning: Interdisciplinary university concept at MSB

Modern neuro and data labs, involvement in current research projects, and close, personal support facilitate the learning process. Cognitive neuroscience is taught at MSB in an interdisciplinary style – in close collaboration with psychology and human medicine.

Flexible studying?

We offer a well designed mix of on campus teaching, virtual formats and guided self study. Our standard is clear: a degree in Cognitive Neuroscience needs practical training in methods such as fMRI, EEG and experimental research, as well as the analysis and interpretation of complex data, require direct exchange on campus. At the same time, digital formats enable flexible, independent and in-depth learning.

Compatibility of study and work?

To ensure a strong theory practice transfer, we actively encourage you to gain experience in research, clinical or applied settings already during your studies. In the first year, that is the first two semesters, teaching takes place on campus on three days per week, allowing you to plan work or other commitments around your studies. In addition, two dedicated on campus weeks provide intensive opportunities for practical training, collaboration and integration of what you have learned. In short, you combine excellent training in cognitive neuroscience with maximum flexibility for part-time work and individually chosen learning environments.

Where are my skills needed?
Research, data science, and innovation

The master's degree qualifies graduates for a wide range of jobs in research, development, and data-driven professions. Graduates work in areas such as:

- Universities and non-university institutions of medical research
- Medical technology and the future-oriented e-health sector
- Data management, data analysis, and data science
- Medical and quality management
- Start-ups, especially in the field of technical wellbeing products
- Innovation fields such as neuromarketing or brain-computer interfaces

Research as a career path: Doctorate in Cognitive Neuroscience

For graduates with academic ambitions, the Master's program in Cognitive Neuroscience also opens up direct access to a doctorate. The methodological and technical skills acquired enable research projects not only in basic neuroscience research, but also in clinical, medical, psychotherapeutic, and technology-oriented disciplines.

A systematic approach to success

A structured, practical, and individually supervised course of study for anyone who wants to conduct their own research, take on responsibility, and shape innovation.

Admission

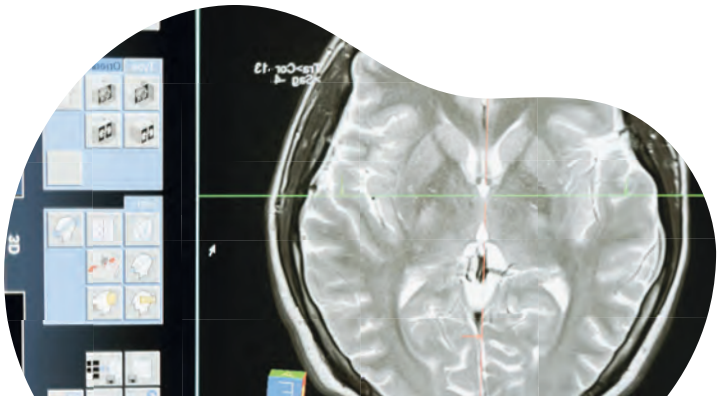
- Eligibility to study in master's programs in accordance with § 10 BerlHG.
- A successfully completed bachelor's degree in psychology, psychotherapy, neuroscience, or in the fields of psychological and cognitive science, biomedical science, mathematics and natural sciences, computer science and data-oriented subjects, or a related field with at least 180 credit points.
- English language skills at level B2 according to the Common European Framework of Reference for Languages (CEFR) are required.

Your study plan at a glance

Module overview | Master's program in Cognitive Neuroscience

areas of expertise	module	modules/courses	semester	CP*
Specific professional expertise	M1	Research Methods and Experimental Design	1	5
	M2	Data Analysis Practical	2	5
	M3	Programming and Data Visualization	1 - 2	8
	M4	Statistics and Multivariate Methods	1 - 2	12
	M5	Neurobiology, Neuroanatomy, Neuropharmacology	1	5
	M6	Foundational Cognition: Emotion, Perception, Action, Memory	1	5
	M7	Higher-Order Cognition: Memory, Attention, Language	2	5
			total	**45**
Advanced technical skills	**Interdisciplinary and disciplinary Elective**			
	M8	Elective Subject	3	5
			total	**5**
	Electives (3 can be choosen)			
	M9a	Clinical Neuroscience	3	5
	M9b	Neuroscience of Consciousness	3	5
	M9c	Neurostimulation	3	5
	M9d	Social and Affective Neuroscience	3	5
	M9e	Machine Learning and AI	3	5
	M9f	Peripheral Physiology	3	5
			total	**15**
Practical application	M10	Research Internship	3	10
			total	**10**
Scientific and methodological skills	M11	Good Scientific Practice and Scientific Writing	2	5
	M12	Current Research Topics and Application Fields	1 - 2	10
	M13	Masterthesis and Colloquium	4	30
			total	**45**
			total sum	**120**

* CP – Credit Points



The IRO Group – a strong network for education

The IRO Group is a successful network of research institutes, research and teaching clinics, and continuing education institutes founded by education entrepreneur Ilona Renken-Olthoff. The IRO Group comprises five private, state-recognized colleges and universities: MSH Medical School Hamburg – University of Applied Sciences and Medical University, MSB Medical School Berlin – University of Health and Medicine, HMU Health and Medical University Erfurt, HMU Health and Medical University based in Potsdam with branches in Düsseldorf/Krefeld and Munich, and BSP Business and Law School in Berlin, a management university with a university law faculty.

The IRO Group stands for many years of expertise in teaching, research, and development. It consistently focuses on an interprofessional and interdisciplinary concept for the training of health professionals as well as specialists and leaders for the economy.

The educational institutions belonging to the IRO Group pursue the goal of sustainably strengthening academic education, particularly in the health sector: through first-class study programs, excellent teaching and research achievements, and strong partnerships.

MSB and its interdisciplinary degree programs

MSB Medical School Berlin – University of Health and Medicine is a private, state-recognized university and part of the IRO Group. It was founded in 2012 by Ilona Renken-Olthoff and is located on Rüdesheimer Straße in Berlin-Wilmersdorf. Students can complete over 15 accredited bachelor's and master's degree programs with internationally recognized degrees. Since 2020, the MSB has also offered a state examination program in human medicine at its Faculty of Medicine.

What sets MSB apart from other educational institutions is that its three faculties combine the fields of applied sciences and university education. Students benefit from an interdisciplinary university concept for the training of health professionals, with a focus on health and medicine in studies and teaching, research, care, and transfer.

Our campus in Berlin – flourish & develop

MSB offers a unique learning atmosphere at its campuses on Rüdesheimer Straße, Mecklenburgische Straße, and Leipziger Platz. Flourish in the heart of Berlin and develop yourself with a wide range of opportunities for personal encounters and individual exchange within our university family. The MSB university campus and the teaching station at the Helios Klinikum Berlin-Buch are home to our medical students during their clinical training. The latest technology and modern interior design are a matter of course for us. On-campus studies with virtual learning opportunities and an exciting university life with numerous events round off the study program.

Tuition fees and financing options

The tuition fees for the Master's program in Cognitive Neuroscience M.Sc. amount to €19,080, payable in 24 equal monthly installments of €795. A one-time enrollment fee of €100 is also charged for new enrollments. There are numerous options for financing your studies: In addition to BAföG, other options include KfW student loans (independent of parents and field of study, no collateral required), scholarships for gifted students, student loans from banks, student education funds, and grants.

Your advantages at a glance

What we offer you

- High-quality, innovative, and interdisciplinary degree programs
- A broad network of expertise with companies and international colleges and universities
- High-quality service and open, transparent cooperation
- Variable, family-friendly study models
- Admission to studies without minimum grade requirements and tight application deadlines
- An exclusive study environment and exciting campus life
- A learning environment with small groups and a friendly atmosphere

We would be happy to advise you.
Please contact usso that we can arrange an appointment:

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University of Health and Medicine
Rüdesheimer Straße 50
14197 Berlin

We are available Monday through Friday from
8:00 a.m. to 5:00 p.m.
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