

Cognitive Neurosciences

Ural Federal University named after the first President of Russia B.N. Yeltsin

Degree or qualification is awarded: **Master's Degree**

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **222 900 RUB per year; 189 600 RUB per year as discounts apply.**

Programme webpage at the university website:

<https://urfu.ru/en/international/programs-and-courses/master-programs-in-english/cognitive-neurosciences/>

Programme curator:

Tel.:

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Cognitive Neurosciences

- Duration of study: 2 years
- Area of Studies: Psychological Sciences
- Subject: Psychology
- Credits: 120 ECTS
- Language of instruction: English
- Entry requirements: 4-year Bachelor's degree (or equivalent)

Program Goals

The Master's program "Cognitive neuroscience" aims to prepare highly qualified specialists in the field of studying the brain and cognitive processes. The program comprises fundamental theoretical training in the field of brain research and neurocognitive processes: neurology, neuropsychology, principles of neuroscience, neurocognitive development of children, methods of brain research and approaches to neurorehabilitation.

The program's structure is a set of interdisciplinary and applied subjects, which describe the theoretical and methodological fundamentals of neurocognitive science.

Program Advantages

Cognitive neuroscience is the combined study of the mind and the brain. Cognitive neuroscience explores how the neurological organization of the brain influences the way people think, feel, and act.

The Master's program employs the scientific-practical facilities of the Laboratory of Brain and Neurocognitive

Development and Lab of Neurotechnologies with the most advanced equipment: 128-channels Geodesic EEG System 300 with Geodesic Photogrammetry System (GPS) 3.0, SMI RED 500 Eye-tracker, Bayley Scales of Infant and Toddler Development - 3rd Edition (BSID III).

Partners:

- the Center for Brain and Cognitive Development, Birkbeck, University of London
- the Laboratory for Early Development (University of Uppsala, Sweden)
- the International Laboratory for Cognitive Investigations and Behavioral Genetics (Tomsk, Russia)
- the International Centre for Research in Human Development (University of California, San Diego, US A)
- -Bavarian University (Ulm, Germany)
- the Key Laboratory of Cognitive Neuroscience and Learning at Beijing Normal University, Institute for Brain Research (Beijing, China)
- the National Academy of Sciences of the Republic of (Yerevan, Armenia)
- the University of Tübingen (Germany)

Students can participate in various research projects, including:

- Investigation of the effects of early parental-based interventions on of infants at high risk for autism and ADHD;
- Investigation and detection of EEG markers of high productivity of working memory, the using of transcranial electrical stimulation of the brain in order to improve the performance of working memory;
- Investigation of limits of human cognitive abilities within a study of the phenomenon of cognitive overload and the individual features of its manifestation;
- Research of the processes of implicit learning in patients with chronic impairments of consciousness and healthy adults;
- Study of the influence of sleep and wakefulness desynchronization on cognitive abilities in late adulthood and on aspects of psychological aging;
- Longitudinal studies of neurocognitive development in preterm infants and infants with perinatal injuries.
- Study of the possibilities of using the VR methods in the learning process.

Key Disciplines:

- Experimental Methods in Neuroscience
- Research in Neuromarketing
- Fundamentals of Neuroscience
- Cognitive Neuroscience
- Computational Neuroscience
- Neuropsychology of Childhood
- Neuropsychological Diagnostics and Correction of Children
- Neurorehabilitation
- Brain Development and Neurocognitive Functions
- Applied Aspects of Psychophysics
- Differential Psychophysiology
- Functional Asymmetry of the Brain

Career Opportunities

The Master Program in Cognitive Neuroscience was developed for students who are interested in mastering practical and fundamental knowledge and skills in the field of cognitive neuroscience, neuropsychological assessment and neuropsychological rehabilitation, mastering state of the art methods in brain and- cognitive research.

Successful mastering of the master's program will allow graduates to perform professional activities as researchers in research centers, as teachers in educational institutions, as practitioners in neuro rehabilitation and correctional-educational centers.

Successful mastering of this program will allow graduates to work at research centers (as researchers), and at neurorehabilitation and correctional-educational centers – as practitioners.

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Specializations within this programme