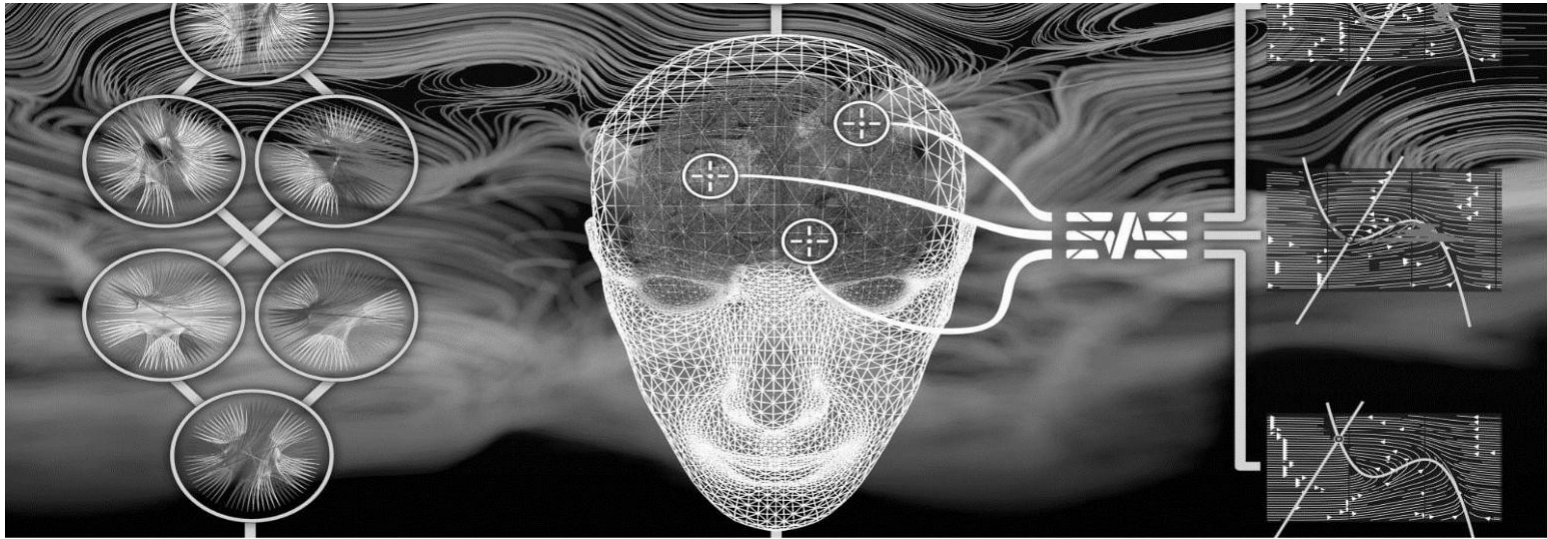


Branch :Electrical Engineering



Code: NEUROE

Option: Neuroengineering

Level: Master

Prerequisites :

Opportunities:

Description:

The elite master's program in neuroengineering combines theoretical and experimental neuroscience with extensive engineering training. There is the possibility of obtaining a Certificate of Research Excellence. What is the purpose of this study program?

The Elite Master in Neuroengineering at the Technical University of Munich, funded by the Bavarian Elite Network, is located at the Faculty of Electrical Engineering and Information Technology, Competence Centre for Neuroengineering. With the possibility of obtaining a Certificate of Research Excellence, it lasts two years. The program is interdisciplinary and combines theoretical and experimental neuroscience with in-depth engineering training. In addition to a series of compulsory modules, students can choose optional modules in the different disciplines and gain research experience under the guidance of world-renowned scientists. The program is aimed at highly qualified international students and offers a unique skills profile that allows for career opportunities beyond the conventional labour market.

Quality and competences :

Graduates not only expand their knowledge in the field of neuroengineering, but also develop research skills during their studies and thesis. In addition to state-of-the-art methodological knowledge and technical skills, students also develop interdisciplinary skills, for example in the ethical aspects of neuroengineering. Rather than individual disciplines, graduates have skills in neuroscience, engineering, mathematics, psychology and computer science, with a particular focus on solving complex engineering problems with high social relevance.

Students who have completed the optional Certificate of Research Excellence have taken additional courses, completed a complementary research project and presented their research findings at a Neuroengineering Summit. Graduates of the Certificate of Research Excellence are able to combine different aspects of neurological systems and define an individual research focus, which gives them an advantage in moving on to a PhD.

MSNE graduates develop their careers in an ethical and socially responsible manner by being able to assess current and future societal needs and challenges.