

# Department of Bio and Brain Engineering

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## Introduction

### **Mission Statement**

**[Mission]** In the fused field of electronics, information technology, and nanotechnology that are based on biological science, we educate innovative human resources who will create new knowledge and technology. We will open better future through new technological development for better human life in Korea and the world.

**[Strategy]** Utilizing the strength of electronics and information technology of Korea, we focus on the integration of BioInformation System, BioElectronic System and BioNano / Micro System. Through the technological innovation of their fusion, we contribute to the industry of Korea and the world.

Newly established in 2002 at the KAIST, the Department of Bio and Brain Engineering aims at providing educational programs that train experts who can generate new knowledge and conduct interdisciplinary research in unexplored areas wherein biology, medical science, and engineering are combined. The program focuses on an understanding of the characteristics and interactions of biomolecules such as DNA and proteins, a comprehensive analysis of bioinformation and biological phenomena on a systemic level, and the development of artificial biological elements with better biocompatibility and nano-scale operations.

The undergraduate curriculum focuses on providing comprehensive basic knowledge in areas including computer engineering, electronic engineering, mechanical engineering, biology, and medicine. In addition, through independent research on a variety of topics, students acquire skills for conducting interdisciplinary research. For a more effective and speedy completion of their studies, students are recommended to choose the program in which the bachelor's and master's degree are linked.

In the graduate program, students with diverse academic backgrounds conduct interdisciplinary education and research. Participation in international academic seminars, and in education and training abroad through joint research with an international advisory boards help to equip our students with a global-standard in research ability and expertise. In addition, students can select the integrated master's and doctoral degree program, which enables them to reduce the term of their studies.