Chemical, Biochemical and Materials Engineering

The focus areas of the education are the sustainable use and processing of natural resources and new materials, including their technical applications. In the studies towards the major, students acquire advanced knowledge in a specific area of biotechnology, chemical technology or material science and technology. The education leading to a master's degree is based on the professional practices of fields requiring expertise in science and technology and on scientific research generating new knowledge. Students may choose their minors or elective study modules so that their degree is a combination of technology, business, and art, typical of Aalto University.

Students will adopt a responsible, goal-oriented and systematic way of working, and develop skills to work as experts in their area of specialisation both independently and in cooperation with experts of different fields, also in an international working environment. They will be able to express themselves clearly and unambiguously both orally and in writing and to tailor their communication to the target audience.

The School of Chemical Engineering trains Masters of Science (Technology) who have the skills and knowledge to work as pacesetters of the fields of biotechnology, chemical technology and material science and technology in various managerial, planning and research duties serving industry or related stakeholders, the scientific community or public sector. The studies of the programme provide students with the knowledge and skills needed for applying scientific knowledge and scientific methods independently and for continuing to doctoral education.

Graduates of the programme will have achieved the key scientific and professional working methods of their area of specialisation and will be able to continuously deepen their knowledge by acquiring, evaluating and processing scientific, technical and professional information. They will gain the knowledge and skills to understand the challenges of the field from the point of view of users and technical and social systems, as well as from that of the environment and be able to use this knowledge in developing new solutions, also as members of multidisciplinary teams.