

Leiden Institute of Chemistry MSc programmes

MSc Life Science & Technology

Research area

The cell is the building block of life, the smallest unit with the molecular characteristics of a living system. Increased knowledge of the mechanisms of the biomolecular and biochemical processes in the cell can lead to better medicines and new methods for combating diseases.

The two-year MSc programme in Life Science and Technology is based on research carried out in the life sciences and chemistry groups of the Leiden Institute of Chemistry (LIC). Researchers take a science-based approach in finding tailored solutions for complex societal problems as encountered in personalised medicine, systems biology and sustainable use of biological sources. Starting from day one and during the whole master programme you are a member of a research team in the LIC. Guided by a personal mentor, you can assemble a tailor-made educational programme for optimal training to become a life sciences professional.

More information about the life sciences and chemistry groups of the LIC areas can be found here: <https://edu.nl/mbvtu>



Why LST at Leiden University?

- You can design your own tailor-made programme adjusted to your interests and ambitions related to Life Sciences, Biomedicine and Chemical Biology.
- You will receive personal guidance by a mentor of choice, who is a member of one of our international and young research groups.
- You have the possibility to be part of research training projects within the Faculty of Science, Leiden University Medical Center, Netherlands Cancer Institute, Erasmus Medical Center or abroad.

Programmes & Admission: <https://edu.nl/tdbq3>

- Students with a BSc degree in Life Science & Technology are admitted to the appropriate master program.
- All other students may apply for admission; the **Board of Admission** will base their decision on the expected study success. We welcome students from all over the world and every year a significant number of HBO students is admitted to the program. Check the entry requirements for HBO students here: <https://edu.nl/yf63b>

Specialisations

The two-year MSc programme Life Science & Technology offers four specialisations and comprises 120 EC. The table on the right gives an overview of the distribution of EC credits over the different components of the programme.

Research: work in one of the research themes to become an independent and creative scientist.

Business Studies: combine training in life sciences with learning about business and entrepreneurship.

Communication and Society: combine life sciences with various aspects of science communication.

Education: prepare for a career in teaching chemistry or biology in secondary education.

Global Structure by Specialisation

	Research	Business	Communication	Education
Research Internship	60	30	30	30
Core courses	20	20	20	20
Academic & professional skills	10	10	10	10
Electives	30	20	20	0/30
Specialisation Components	-	40	40	60/30
Total	120	120	120	120

Core Courses of MSc Life Science & Technology

Students have to choose four core courses from the list described in the following table. They need to take one course from each of the series (Biomedical, Molecular, and Biophysical Sciences), plus one additional course from one of the three series.

Biomedical Sciences	Molecular Sciences	Biophysical Sciences
Advanced Gene Regulation	Metals and Life	Bionanotechnology
Immunotherapy and Technology	Chemical Biology	Supramolecular Biomaterials
In-vivo biomolecular interactions underlying diseases	Biosynthetic and Pharmaceutical Chemistry	Enzyme Dynamics & NMR

External projects @ companies or research institutes

- Within the **research specialisation** it is possible to do an optional minor research project of 20 – 40 EC.



Johnson & Johnson

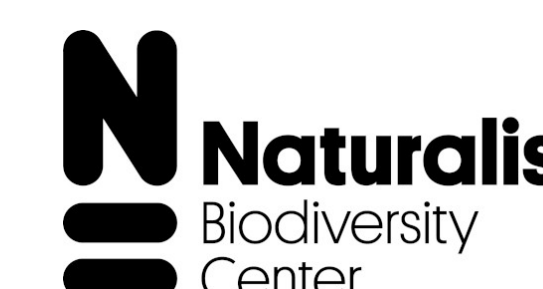
- Within the **business specialisation** it is mandatory to do a business internship of 20/30 EC to advance your business knowledge & skills.



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- Within the **science communication specialisation** students can do an external project of 17 – 37 EC.



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