

Life Science & Technology

Master of Science

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.

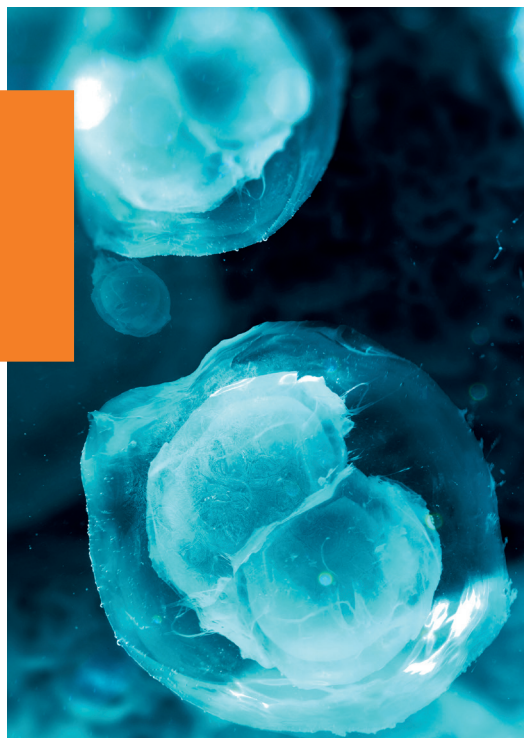
The two-year MSc programme in Life Science and Technology is based on research carried out in the life sciences and chemistry groups of the Leiden Institute of Chemistry. Researchers take a science-based approach in finding tailored solutions for complex societal problems as encountered in personalised 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.

Why study LST at Leiden University?

- You can design your own tailor-made programme adjusted to your own 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.



**Universiteit
Leiden**
The Netherlands



- 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.

Facts and figures

Language	English
Duration	2 years
Degree	Master of Science
Start	September or February
Admission	Start September: 1 April non-EU / 15 June EU Start Februari: 15 October non-EU / 1 December EU
Tuition fee	€ 2,078 EU/18,300 non-EU

More information

For more information about entry requirements, admissions procedures, tuition fees and scholarships, please visit our website:

masters.universiteitleiden.nl/lst
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Life Science and Technology: programme overview and courses

The two-year MSc programme LST offers one research specialisation and three specialisations in which you combine life science research with business studies (BS), communication (SCS) or education (EDU).

Programme overview Life Science Research and Development

General compulsory courses (72 EC)

- Research training project (60 EC)
- Essay and Colloquium (6 EC)
- Academic Writing (2 EC)
- Science Methodology (4 EC)

Core courses Bio(medical) Sciences (6 EC each, choose at least 2 courses)

- Genome Organization and Maintenance in Cancer and Aging
- Bio(medical) Informatics
- Global Regulatory Networks in Bacteria
- In-vivo Biomolecular Interactions Underlying Diseases

Core courses Molecular Sciences (6 EC each, choose at least 2 courses)

- Molecular Chemistry
- Enzyme Dynamics: NMR Spectroscopy and Kinetics
- Bionanotechnology
- Chemical Genetics

Elective courses (24 EC)

- Advanced Medicinal Chemistry (6 EC)
- Bioinorganic Catalysis (6 EC)
- Biomaterials (6 EC)
- Chemical Biology (6 EC)
- Chemical Immunology (6 EC)
- Computational Drug Discovery and Development (6 EC)
- Cross-domain Chromatin Organisation (4 EC)
- Density Functional Theory in Practice (6 EC)
- Integrated Cell Biology (2 EC)
- Metals and Life (6 EC)
- Molecular Aspects of RNA Viruses (4 EC)
- Molecules of Life (6 EC)
- Photochemistry (6 EC)
- Photosynthesis and Bioenergy (6 EC)
- Synthetic Organic Chemistry (6 EC)
- Supramolecular Chemistry (6 EC)

* This is just a selection of potential courses; other MSc courses may be selected.

Programme overview BS, SCS and EDU (120 EC)

If you choose one of these specialisations, you will have a reduced research programme (60-80 EC) comprising a research training project (30 EC), core courses (24 EC) courses related to academic skills (6 EC) and electives (0-20 EC). You will follow specific BS, SCS or EDU courses, electives and/or internships (40-60 EC).