

Global Master's Programme

# Toxicology

2 year, 120 higher education credits



Karolinska Institutet is one of the world's leading medical universities. Its mission is to contribute to the improvement of human health through research and education.



**Karolinska  
Institutet**

By joining the Master's programme in toxicology, you can become one of the qualified toxicologists of the future, helping to meet international demand.

### A unique cohesive focus

The Master's programme in toxicology at the Institute of Environmental Medicine (IMM), Karolinska Institutet, has evolved since 1976, when it was one of the first toxicology programmes to be offered in the world. The two-year programme is unique in its cohesive focus on toxicology and health. Research and risk assessment activities at IMM are well-integrated, and provide a solid foundation for continuing as either a researcher or as a risk/safety assessor.

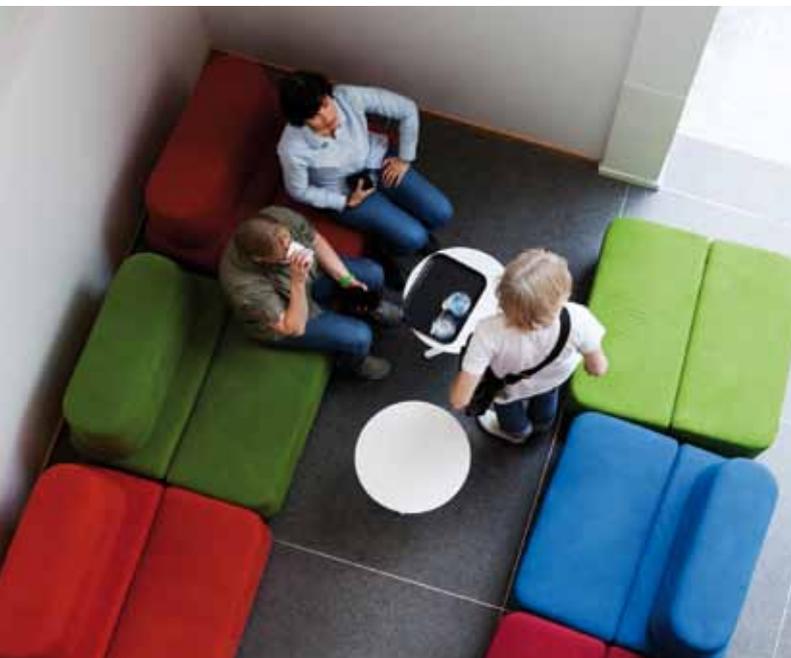
Studying toxicology is a way of learning how to understand various mechanisms of toxicity and how to assess health risks associated with the use of chemicals in our daily life. Knowledge and training in toxicology will give you the opportunity to contribute to a future promoting safe and sustainable chemical, pesticide and drug use.

### A future career in a growing field

The programme has an emphasis on toxicological testing and research, modes of action, and health risk/safety assessment using problem-based learning and real-life cases. The programme utilises its close connection with high-quality research and risk assessment work, and collaborates with the pharmaceutical industry, national authorities, as well as with scientists at departments within and outside KI.

## Why study Toxicology at KI?

- This is one of the first toxicology programmes world-wide, unique in its cohesive focus on toxicology and human health.
- Education is highly integrated with toxicological research and risk assessment activities at the department.
- The programme is given in close collaboration with AstraZeneca Safety Assessment and national authorities in the field.



## Specific entry requirement

- A Bachelor's degree or a professional degree equivalent to a Swedish Bachelor's degree of at least 180 credits in bio-medicine, biology, cellular and molecular biology, pharmaceuticals, chemistry, medicine or biotechnology.
- Proficiency in the English language (equivalent to English B at Swedish upper secondary school) should be documented by an internationally recognized test such as TOEFL or IELTS, or other documentation that certifies the equivalence.

**For further information** related to the programme, such as minimum test results required and general exemptions from submitting test results, scholarships, accommodation and application procedures please visit: [ki.se/masterstudies](https://ki.se/masterstudies)

“As an environmentalist, I chose to study toxicology because of the important role it plays in reducing human impacts on the planet, and ensuring that it is truly habitable for future generations.”

Oliver Adfeldt Still, Master in Toxicology

### Year 1

- Introduction to toxicology
- Target organ toxicity
- Health risk assessment of chemicals
- Toxicokinetics
- Biochemical and molecular toxicology
- Laboratory animal science
- Histopathology

### Year 2

- Toxicity testing
- Elective course(s)
- Degree project

(Subject to change)



## Join the tradition of future breakthroughs

As you enter the campus of Karolinska Institutet, you're putting your feet on historic ground. A place of scientific breakthroughs and Nobel Prize winners. Yet a dynamic institution setting itself up for the methodology needed for future success. Possibly with you as part of the team.

Originally created for training army field surgeons 200 years ago, Karolinska Institutet today serves as a first-class greenhouse for a new type of force. The brightest and most creative group of medical entrepreneurs, doctors and scientists around. A force to be reckoned with.

Since the beginning of the 1900's, Karolinska Institutet has been assigned to elect the recipients of the Nobel Prize in Physiology or Medicine. Even though this task is hugely important, electing new talent to train with us is equally thrilling. Honestly – it's the not-yet discovered solutions that make us tick. And we hope the same goes for you.

So, how does it sound to be present as the focus of medical research shifts from curing to preventing? From treatment to completely ending illness and disease. Our aim is to train students who are inquisitive. Because even though we currently celebrate our 200 year anniversary, the aim is at the centuries to come. Wellgrounded in a long tradition of scientific trail-blazing, Karolinska Institutet will always be about what you achieve tomorrow. Maybe this is why we rank among the best. The well-reputed Shanghai ranking has us as number 42 out of the top 500 universities in the world. And in the Times Higher Education, we're at 43rd place out of the top 200. The research landscape is being re-drawn. Wouldn't it be nice to hold the pen?



Photo: Camilla Svensk, Erik Svensson and ©The Nobel Foundation. Subject to change.

## Facts on Sweden

**Population:** 9.26 million

**Average life expectancy:** Women 83 years, men 79 years

**Languages:** Swedish, Sami (Lapp), Finnish, Meänkieli (Tornedalen Finnish), Yiddish, Romany

**Religion:** Evangelical Lutheran Church of Sweden (80 percent)

**Currency:** One krona equals 100 öre

**Main exports:** Machinery, electronic and telecom equipment, oil products, paper, iron and steel, pharmaceuticals, passenger cars

*Published by the Swedish Institute*

*More facts can be found on [www.sweden.se](http://www.sweden.se)*

## Useful links

[www.sweden.se](http://www.sweden.se)

[www.scholarshipportal.eu](http://www.scholarshipportal.eu)

[www.swedenintouch.se](http://www.swedenintouch.se)

[www.studyinstockholm.se](http://www.studyinstockholm.se)



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