

Global Master's Programme

Health Informatics

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**

Studying health informatics is a way of learning how to improve modern healthcare through efficient management of information and knowledge.

A field of study for safety and quality

Modern healthcare is dependent on the thorough analysis of information needs and refinement of information handling and clinical processes, with the aim of achieving safer and higher quality care provision. The field of health informatics is therefore comprised of the competencies required for successful outcomes in this respect.

The field of health informatics studies methods and techniques for collection, management and evaluation of medical information. This field is essential for efficient information management in clinical research and healthcare and ultimately, for improved care provision.

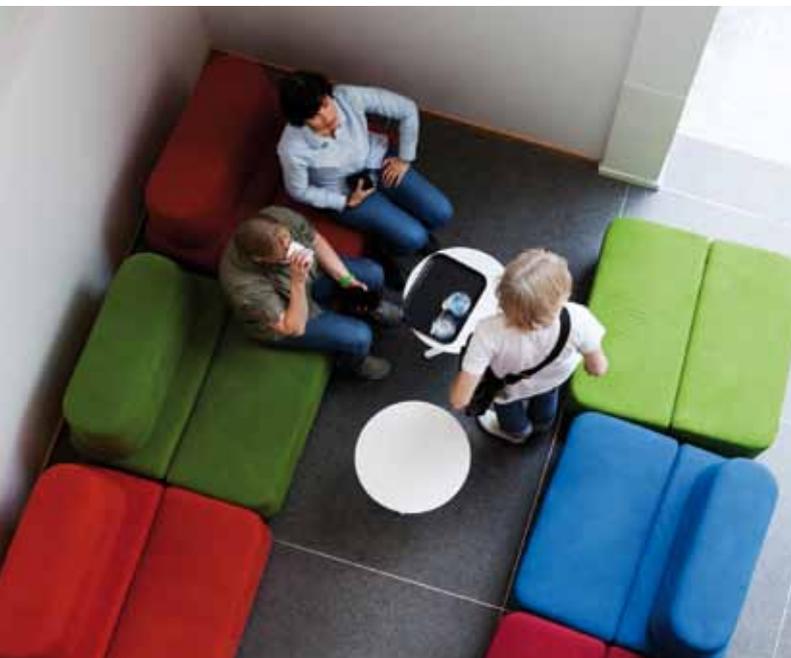
Clinical or technical?

In this two-year programme, you have a choice of either a clinical or a technical specialisation. While the former allows you to acquire knowledge about leading change processes in the healthcare services using IT, the latter gives you the opportunity to further investigate advanced methodology. In either case, you will be able to apply your acquired knowledge to authentic case studies and health informatics projects, allowing you to gain experience while contributing to current research.

Upon completion of the programme one may choose to continue with research, or take a job as a project manager, IT manager, clinical informatician, software expert, process analyst, evaluator, instructor, IT architect or systems engineer.

Why study Health Informatics at KI?

- You have a background in computer science and would like to gain the expertise to develop state-of-the-art health information systems.
- You have a background in healthcare and/or biomedicine, and would like to take lead in transforming healthcare using IT.
- You would like to study at a world renowned medical university.



Specific entry requirement

- A Bachelor's degree or a professional degree equivalent to a Swedish Bachelor's degree of at least 180 credits in health-care, biomedicine, technology, computer and systems sciences or informatics.
- 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

“Before I applied I was deciding between a career as a health care professional or an engineer. But when I read about the Master’s programme in health informatics I found a perfect combination of two worlds.”

Helena Hvitfeldt Forsberg, MSc Phd student
Karolinska Institutet

Semester 1	Semester 2	Semester 3	Semester 4
<ul style="list-style-type: none"> • Health informatics • Computer systems science/ Health care management and organization + Basic medical science • Computer applications in health care and biomedicine 	<ul style="list-style-type: none"> • User needs and requirements engineering • Management and IT/ Health information systems • Evaluation methods • Clinical decision support • Project - Case studies 	<ul style="list-style-type: none"> • Management, leadership and change work/Machine learning • Modelling, simulation and visualization • Scientific research methods • Project - Case studies 	<ul style="list-style-type: none"> • 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

Useful links

www.sweden.se

www.scholarshipportal.eu

www.swedenintouch.se

www.studyinstockholm.se



**Karolinska
Institutet**

Karolinska Institutet
SE-171 77 Stockholm
Sweden

Phone: +46-8-524 800 00
ki.se

Questions: study-guidance@ki.se