SWEDEN AS A KNOWLEDGE NATION

Anders Hektor, Science and Innovation Counsellor, Embassy of Sweden

190924 EURAXESS Mid-career research mobility
QUICK FACTS ABOUT SWEDEN

- Population: 10,2 million
- Area: 450 292 km²
- GDP: 547 billion US$
- GNI per capita: 55 070 US$
- R&D expenditure: 3,16% of GDP – 3rd highest in the world
INNOVATION CREATED GLOBALLY SUCCESSFUL COMPANIES
INNOVATION CREATED GLOBALLY SUCCESSFUL COMPANIES

Klarna
iZettle
bambora
S
Ting
ABB
AGA
SKF
Nordea
SEB
TeliaSonera
ASSA ABLOY
Handelsbanken
AstraZeneca
Spotify
AstraZeneca
Electrolux
H&M
Swedish Match
Volvo
A TOP PERFORMER

European Innovation Scoreboard: 1 (2019)

Global Innovation Index: 2 (2019)


Global Talent Competitiveness Index: 7 (2019)
CULTURAL STRENGTHS

- Trust and confidence, in institutions and fellow people
- "Everybody" speaks English
- Equality and flat hierarchy
- Welfare system
- Rule of law
NATIONAL RESEARCH INFRASTRUCTURE

Max-IV
next-generation synchrotron

ESS
European Spallation Source

SciLifeLab
Molecular Life Sciences
RISE is Sweden's research institute and innovation partner.

RISE is an independent, state-owned research institute with 2,700 employees, 100 test and demonstration environments.

Turnover 2018 was 3 billion SEK (ca 310 million USD, 370 billion KRW)

www.ri.se
Universities with research
25 public Universities
7 private Universities

Other Higher Education Institutions
5 public
7 private
+ 4 private course providers
TOP UNIVERSITIES OF SWEDEN

Karolinska Institutet
Lund University
UPPSALA UNIVERSITET
Stockholms universitet
UNIVERSITY OF GOTHENBURG
KTH vetenskap och konst
CHALMERS University of Technology
SLU Sveriges lantbruksuniversitet
UMEA UNIVERSITET
Örebro universitet
Linköpings universitet
DEFINING FEATURES OF SWEDISH HIGHER EDUCATION

- Public system
- Non-hierarchical relations between teachers and students
- Group work and collaboration important
- Emphasis on individual responsibility on theses and individual assignments

INTERNATIONAL STUDENTS

- Around 1,000 study programmes taught entirely in English
- Most English-taught programmes are at master’s level
- Master’s degrees, either one or two years
DOCTORAL (PhD) STUDIES IN SWEDEN

- Paid positions by universities or external funding bodies
- No fees
- Collegial relation with the faculty
- PhD programmes comprise 4 years
- Often combined with teaching
- Research based
- No centralized application system, open positions advertised at university websites, applications in competition
KEY ACTORS IN RESEARCH FUNDING

- VR, Swedish Joint Research Center
- STINT, the Swedish Foundation for International Cooperation in Research and Higher Education
- SSF, The Swedish Foundation for Strategic Research
- Vinnova, the Swedish Innovation Agency

And other public and private institutes
KOREA–SWEDEN STI JOINT RESEARCH PROGRAMME

The Swedish Research Council (VR), www.vr.se/inenglish

- VR has an ongoing bilateral collaboration with NRF. Typical two years up to 100,000 USD/year provided by each side.

- The 2018 call focused on exchange for use of national research infrastructure. Research topics addressed were within life-, medical-, natural- and engineering sciences.

- Eight Swedish projects granted to utilize Korean research facilities and five Korean projects were funded for travel to visit Swedish facilities.

- The next joint launch will take place in early 2020 with funding from 2021 and onwards.

Contact person: magnus.friberg@vr.se
KOREA–SWEDEN COOPERATION

the Swedish Foundation for International Cooperation in Research and Higher Education (STINT)
www.stint.se/en/scholarships_and_grants/korea–sweden

- STINT, supports research projects between Korean and Swedish universities in cooperation with NRF for up to 3 years.
- STINT and NRF each invests up to USD 78 000.
- The cooperation type is *mobility* and calls are open to *all fields of science*.
- A call is now open and closes at 27 September for the 2020 program.

Contact person: mattias.lowhagen@stint.se
GRANTS FOR KOREA–SWEDEN RESEARCH COLLABORATION

The Swedish Foundation for Strategic Research (SSF), www.strategiska.se/en

- SSF and NRF launched a joint programme stimulating collaborative, focused research projects involving highly qualified groups in Korea and Sweden.
- 6 million USD goes to 9 projects in the research fields material science, biomedical engineering, and ICT, to cover collaborative projects of the highest international scientific standard.
- Next call is being discussed

Contact person: Joakim.Amorim@stratresearch.se
EUREKA AND EUROSTARS KOREA–SWEDEN COLLABORATION


- An MOU between the Korea Institute for Advancement of Technology (KIAT) and VINNOVA during EUREKA forms the basis for cooperation.

- Both countries focus on areas of mutual interest and consider utilizing existing channels, such as EUREKA meetings to identify, discuss, plan, implement and monitor collaborative activities. These include but are not limited to partner search, matchmaking, identifying joint R&D projects, drafting of promotional calls, etc.

- Eurostars Promotional Call on Smart Mobility, Smart Industry, Circular Economy, Smart Health and Smart Energy, closed in June 2019.

- Two relevant open calls now, one in seven weeks

Contact person: ciro.vasquez@vinnova.se
BELMONT FORUM COLLABORATIVE ACTIONS

The government research council for sustainable development (FORMAS)
formas.se/en/

- Promoting and supporting research of the highest scientific quality and relevance in the fields of *environment, and SDG–related societal challenges.*
- Open to proposals for Collaborative Research Actions with Belmont Forum
- No bilateral calls with Korea yet

Contact person: anders.hektor@gov.se
OTHER ACTORS IN RESEARCH FUNDING

Public and private institutions funding research:

- Swedish Foundation for Humanities and Social Sciences – Riksbankens Jubileumsfond
- Knut & Alice Wallenberg Foundation
- Torsten Söderbergs Stiftelse
- Swedish Energy Agency
- Swedish Research Council for Health, Working Life and Welfare Swedish
- The Swedish Foundation for Strategic Environmental Research
THE NOBEL PRIZE
THANK YOU FOR YOUR ATTENTION!

Office of Science and Innovation

anders.hektor@gov.se, Counsellor
seyeong.yoon@gov.se, Advisor
jiwon.yoon@gov.se, Project Manager, Study in Sweden Promotion