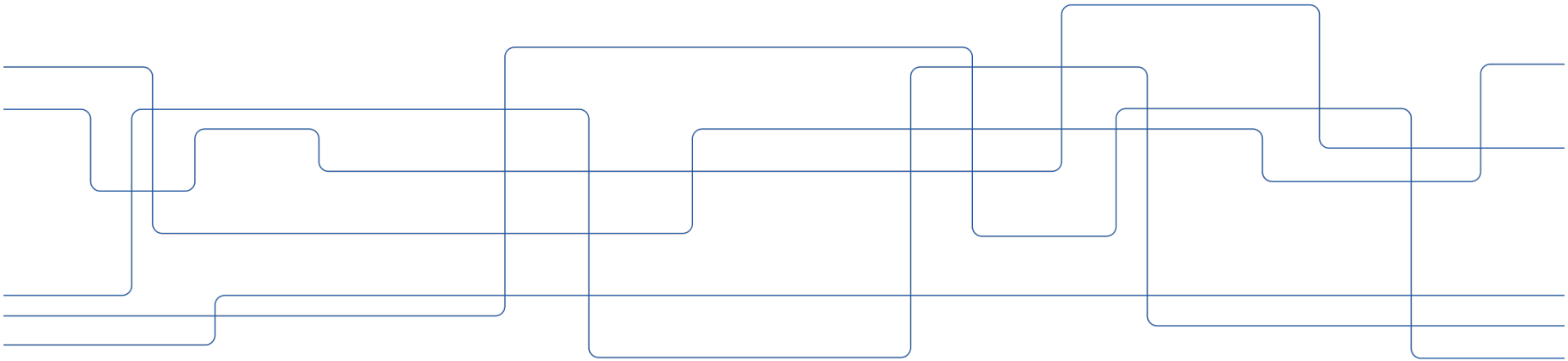
Welcome to the EECS Staff meeting

30 March, 9:00–9:30



Agenda

- Ann Lantz – management information
- Markus Hidell on first and second cycle education
- Carl-Mikael Zetterling on the Electrum lab
- Anette Arling from Finance on the school budget
- Anna Kiefer from Digital Futures
- Emanuel Borg from doctoral support
- Anna Mård, Felicia Gustafsson and Tysse Norlindh Falk from HR
- Q&A

Management information

84 persons have been recruited to EECS during January – March 2023. Including:

- 9 administrative officers
- 28 undergraduate assistants (amanuens)
- 13 doctoral students
- 5 researchers
- 12 research engineers
- 12 post doctors
- 1 industrial doctoral student

Congratulations Wouter!

Wouter van der Wijngaart (EECS) will represent the teachers in the University board for the mandate period 2023-05-01 – 2026-04-30 together with Ulrica Edlund (CBH), Nicole Kringos (ABE).

KTH and President decision

Changes to the KTH Management Group from January

- The group includes the President, Deputy President, Head of School, the University Director and Deputy Director, and a representative of the Student Union.
- Meetings are held once a week.

President decision on activities to restore financial balance

- Deputy president: suggest how costs for all premises can be decreased, investigate consequences of changed operations on one or more Campuses.
- Head of school: increase the income from GRU, reduce costs or increase the income in our business plan for 2024.
- University Director: cut costs within the administrative support with 50 million SEK until the end of 2024.

Campus visits

- The President, Deputy president and the University director will visit Campus Södertälje, Campus Flemingsberg and Campus Kista on 31 March.
- The visit to Kista will be at 13:30, in Sal B.
- Heads of department and heads of division with connection to the campus have been informed, but everyone at the school is welcome to attend.

EECS' management

The management group at EECS includes the Head of school, the Deputy head of school, the Director of First and Second Cycle Education (GA), the Director of Third Cycle Education (FA), Heads of department, the Head of the school's faculty assembly, the Head of administration and student representatives.

The group meet 1-2 times per month.

The extended management group at EECS also include Heads of division, the Director for Electrum lab and for PDC.

The group meets once a month.

The most important topics on the agenda during February and March have been:

- Business plan 2023 (24-25)
- Support with economy, prognose 2022, budget 2023
- The department head role
- Communication plan
- Results from the PhD councils' evaluation and actions, results from Pulsmätning and actions.
- Responsible internationalisation.

Reminders

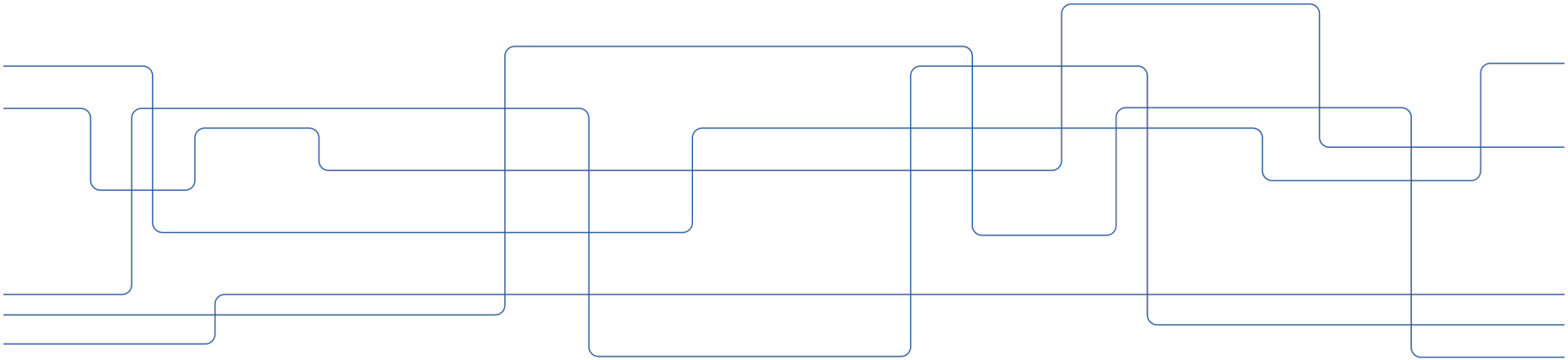
- **EECS is looking for a new head of faculty renewal** (FFA). The deadline for sending in an application is 30 April. If you have any questions about the role, contact Lars Nordström.

- **EECS will have a summer party on the 8 June!** All school staff is invited. Focus will be on our various centres. There will be good food, posters, presentations, music and maybe also some dancing. More information to come!

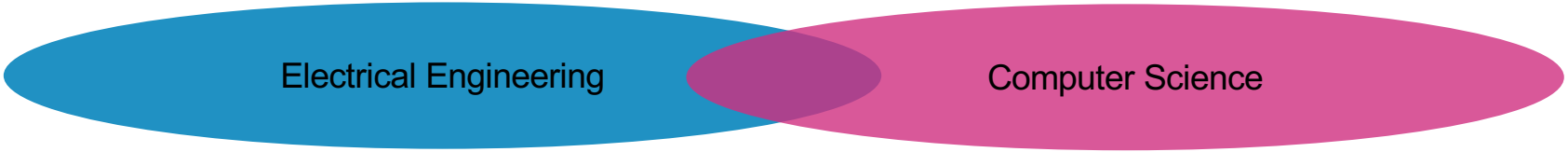
An update from 1st and 2nd Cycle Education

Admission to EECS master's programmes

Markus Hidell, Acting Director of First and Second Cycle Education



EECS master's programmes—local admission



- Electromagnetism, Fusion and Space Engineering
- Electric Power Engineering
- Nanotechnology
- Information and Network Engineering
- Embedded Systems
- Systems, Control, and Robotics
- ICT Innovation
- Communication Systems
- Computer Science
- Software Engineering of Distributed Systems
- Interactive Media Technology
- Machine Learning
- Cybersecurity

Admission to MSc is a timely matter

- Screening of international applicants and admission to our master's programmes
  - Over 4700 first-hand applicants to EECS 2023, over 1/3 of KTH's total number
  - Hard work by programme directors to evaluate and set merit scores

- Presidents decision ”Economy in balance” as of 7 February 2023
  - Suggest how to reduce premises costs
  - Investigate possibilities to increase admission numbers

- Criteria for a responsible increase in number of admitted students
  - Maintain quality of the applicants we admit
  - Maintain quatliy of the education we deliver to the admitted students
  - Dialogue between GA, program directors and directors of studies

EECS admission numbers 2023

		Admitted 2022		Admitted 2023	
Program		**FEE**	**NON-FEE**	**FEE**	**NON-FEE**
TCOMM	MSc Communication systems	70	12	70	12
TCSCM	MSc Computer science	32	28	43	24
TCYSM	MSc Cybersecurity	5	16	8	18
TEBSM	MSc Embedded systems	84	12	88	16
TEFRM	MSc Electromagnetism, fusion and space engineering	36	21	37	16
TELPM	MSc Electric power engineering	42	4	53	6
TIMTM	MSc Interacitve media technology	44	24	60	25
TINNM	MSc Information and network engineering	53	7	48	6
TIVNM	MSc ICT Innovation	22	10	17	14
TMAIM	MSc Machine learning	47	43	34	50
TNTEM	MSc Nanotechnology	46	14	50	14
TSCRM	MSc System, control and robotics	21	15	38	15
TSEDM	MSc Software engineering of distributed systems	17	26	25	43
	Total	**519**	**232**	**571**	**259**

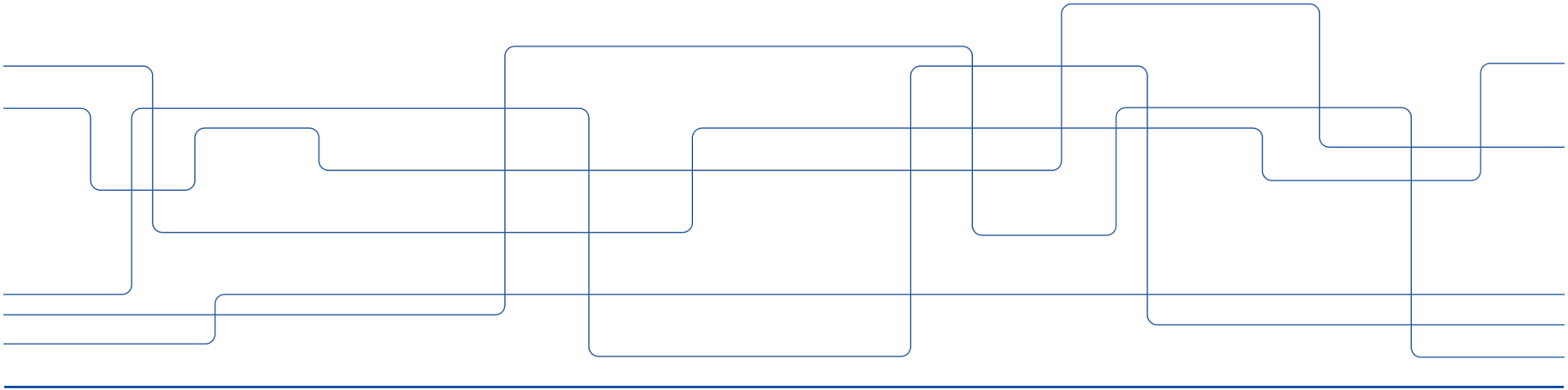
Increase in admission numbers (FEE+NON-FEE): ~10%

Note: Number of registered students much lower: 40-45% of admitted

Department of Electrical Engineering

Overview of some KTH research centres and facilities

Carl-Mikael Zetterling



Electrum Laboratory, part of Myfab

ISO 9001 certified management system:

- controlled processes and tool uptime
- calibrated characterization tools

Processes for many applications

Circuits and discrete devices:

- Electronics and Microsystems in silicon
- Optoelectronics in III-V materials
- High power and High temperature in silicon carbide.

Research and development

Inventing and manufacturing of novel devices
Network of researchers and entrepreneurs

Small scale production

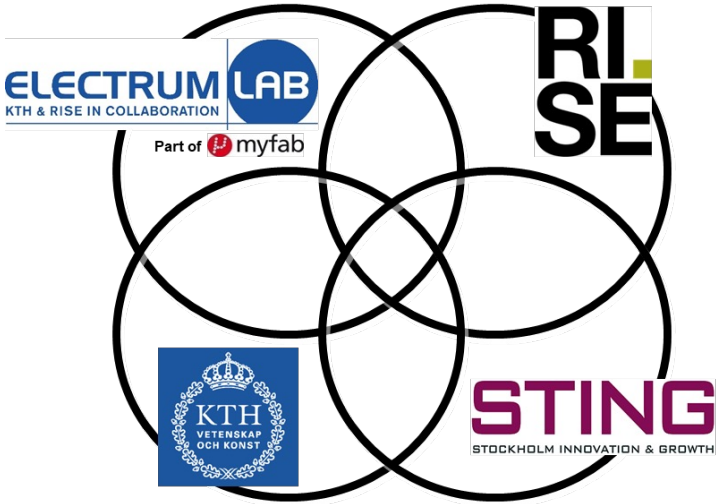
Incubator for start-up and spin-off companies

Education

Advanced graduate and undergraduate courses.

Contact: Nils Nordell, nordell@kth.se

Electrum Innovation Environment



silex MICROSYSTEMS

ascilion
Pain-free glucose measurements

IRnova

SCINT-X
STRUCTURED SCINTILLATORS

ascatron

KISAB

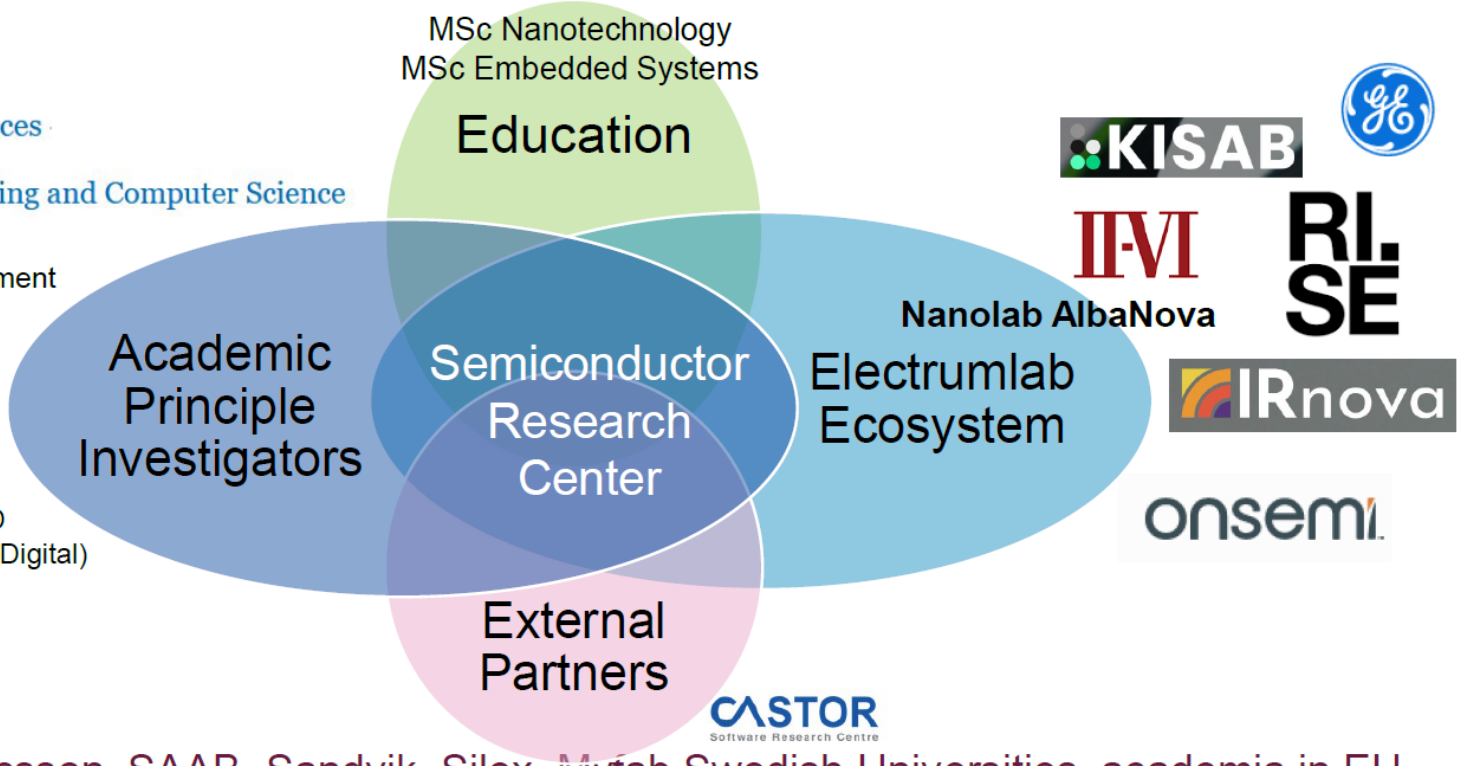
NanOsc

In total (2021):
> 150 M€ turnover
> 500 employees

In average one new company per year, since 1997 – started or moved in

Contact: Per-Erik Hellström

Semiconductor landscape around KTH



KTH Space Center (SCI)

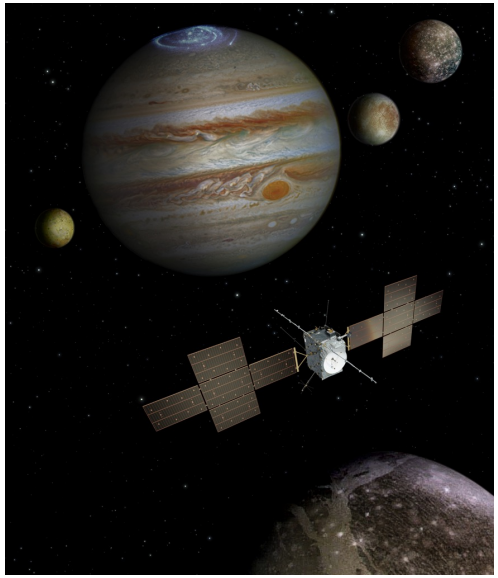
Director: Christer Fuglesang
Deputy director: Carl-Mikael Zetterling

- KTH Space Center coordinates and promotes space-related activity at several KTH departments from all five schools, with an overarching objective of establishing KTH as a "Space University" and a hub for Swedish space research and technology.
- Monthly seminars, hybrid, next is 4/4 in D2
- Space Rendezvous every semester, in Kista 27/4
- Sign up for the mailing list
- Also organizes KTH Space Technology Laboratory:
  Thermal vacuum chamber (+/- 150°C), climate chamber, vibration and shock tables

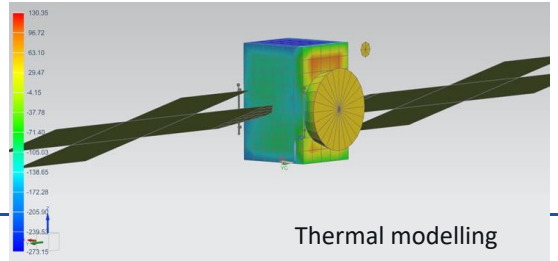
ESA JUICE satellite mission to explore Jupiter system

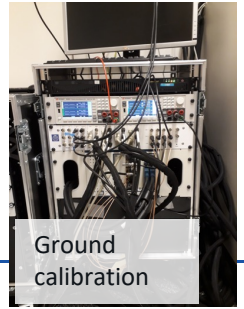
Space and Plasma physics division is part of the team

Ariane 5



- ESA (European Space Agency) plans to launch JUICE on 13th April with its arrival to the Jupiter system in 2031.
- Jupiter is the largest planet in the solar system with 92 moons and counting. JUICE will be the first mission launched that is fully dedicated to exploring the Jupiter system and will be the first mission ever to orbit a planetary moon – Ganymede.
- Sweden is a major contributor and KTH Division of Space and Plasma physics provides thermal modelling, ground hardware and ground calibration to the Radio and Plasma Wave Investigation (RPWI) instrument.
- Lorenz Roth (KTH) will be at the spacecraft operation center in Darmstadt during the launch and report directly.
- KTH Space Center seminar on JUICE 4th April 15:15 in D2 and zoom. Jan-Erik Wahlund, IRF, Uppsala


Thermal modelling


Ground calibration

Lars Bylander

JUICE assembly for launch.

Space Rendezvous comes to Kista

- how to successfully launch new Swedish space companies into orbit?

KTH Space Center invites to

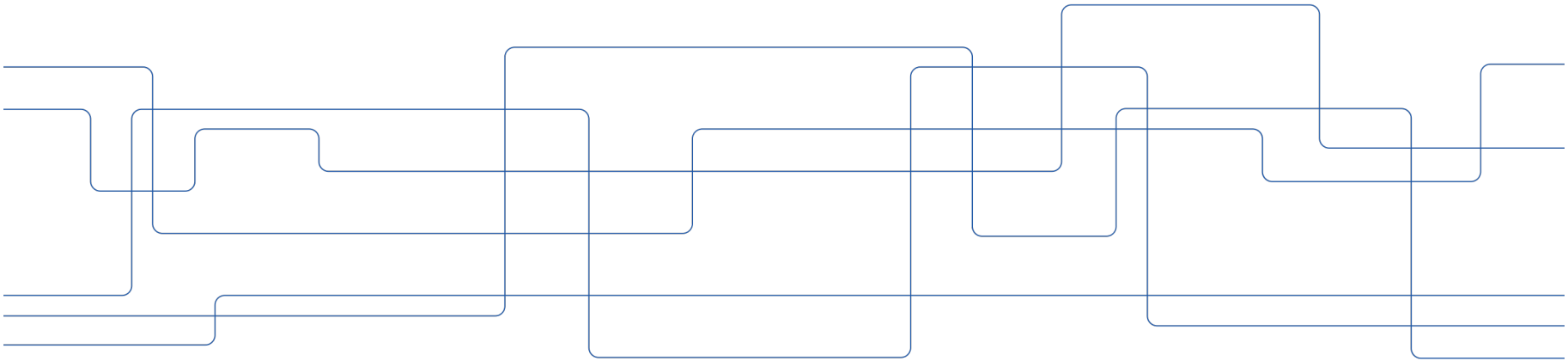
- Seminars
- Fika with Cake
- **Guided tours of the Electrum Laboratory**
- Exhibition
- Panel discussion
- Space pub

Time: Thursday, April 27, 13:00 – 17:00

Place: Electrum, Sal A and Zoom

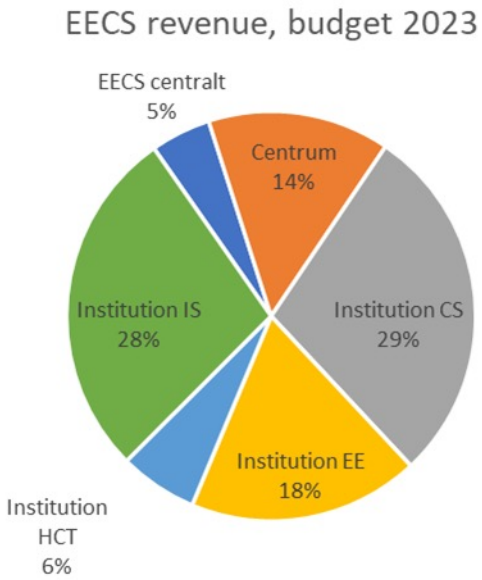
Anette Arling, Finance

EECS' budget 2023

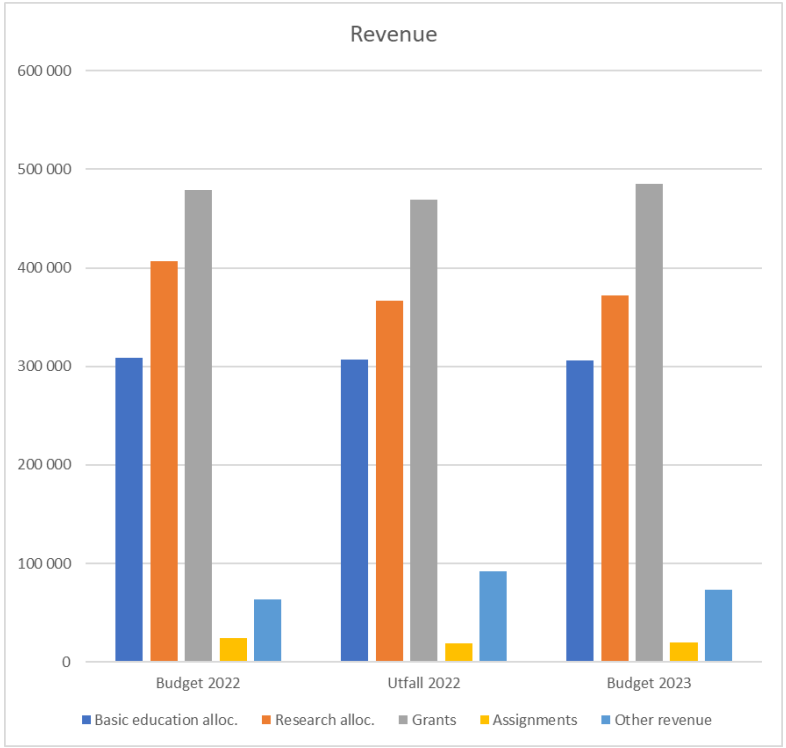


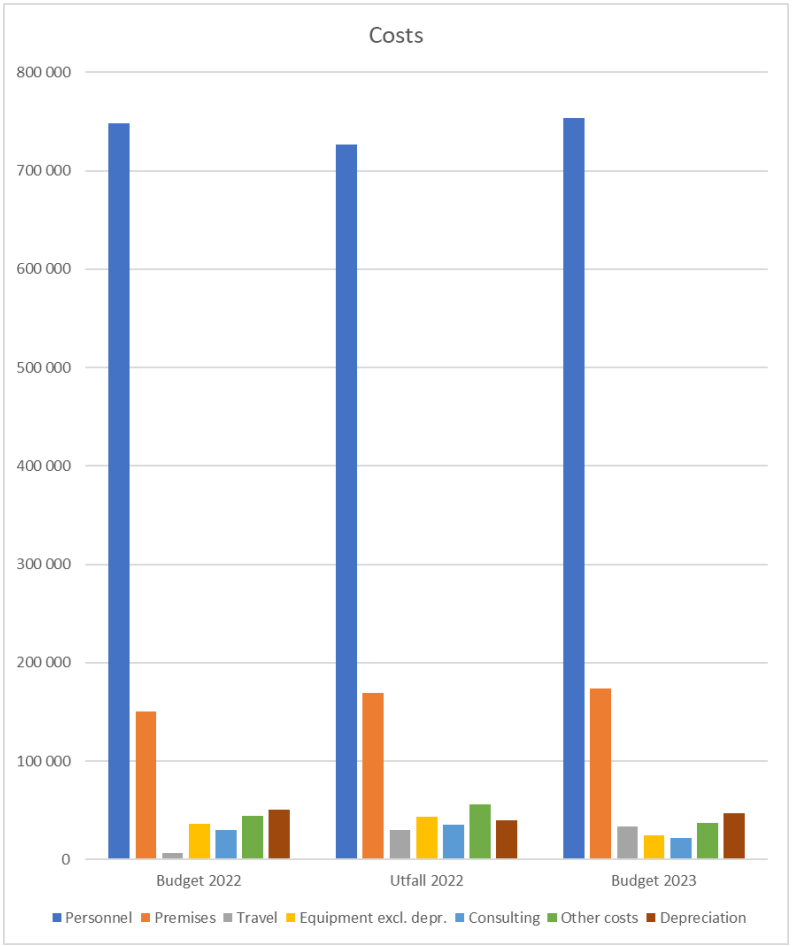
EECS budget 2023

SEK thousand	Budget 2022	Utfall 2022	Budget 2023
Revenue			
Basic education allocation	309 037	306 938	305 623
Research and education all.	406 502	366 248	372 076
Grants ext. financiers	479 358	469 300	485 106
Assignments ext. financiers	23 931	19 120	19 650
Other revenue	63 483	92 008	73 429
Financial income	0	370	0
Total revenue	**1 282 311**	**1 253 984**	**1 255 884**
Costs			
Personnel costs	747 880	726 708	753 916
Costs of premises	150 282	169 103	173 894
Travel and allowances	6 540	29 762	33 733
Equipment excl. depreciation	35 952	43 124	24 845
Consulting services	30 153	35 503	21 313
Operation and other	44 557	56 282	37 083
Contribution margin KTH	188 141	184 163	183 939
Depreciation	50 863	40 120	46 898
Financial expenses	0	127	117
Total costs	**1 254 368**	**1 284 892**	**1 275 738**
Result	**27 943**	**-30 908**	**-19 854**



Revenue and costs





Anna Kiefer, Digital Futures

Cross-disciplinary research environment – with a vision to shape a sustainable society through digital transformation

Open Research Days 20-21 April 2023

Join us for presentations on research projects, partner presentations and panel discussions!

Themes:

- 6G – Communication, Sensing, Computing
- Safe and Smart Power Systems
- Trustworthy Software and Systems
- AI for Environment
- Smart Mobility
- Digitalized Built Environment
- Transforming Education
- Social AI
- Digitalized Medicine
- Digitalized Health Care
- AI for Biology
- Robots and People

Digital Futures partnership programme

- **The formation of an eco-system** through which partners **identify cutting-edge challenges, strategies and approaches**.
- **Strategic funding of joint research activities** addressing upcoming challenges in industrial and/or societal settings.
- The further **strengthening of the Stockholm region**, **as world-leading innovation hub** in digital transformation.
- The **strengthening of partners** through continuous exchange with ongoing research activities within Digital Futures.

Summer Research Internship Programme

8-week internship for bachelor and master students to conduct research under the guidance of Digital Futures Faculty.

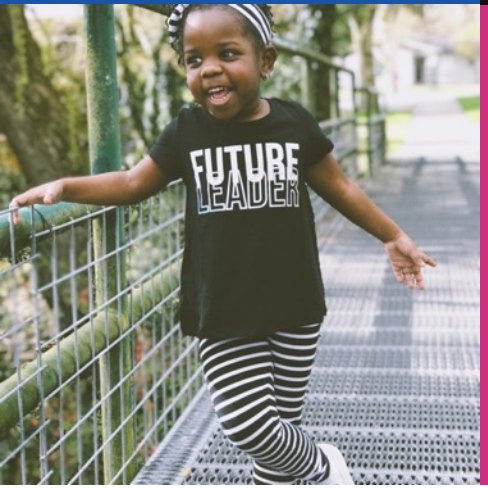
Day 1 Tuesday 17 Oct

Future Digileaders

Hybrid

Participation by registration / or application

Chair: Qianwen Xu, KTH



Day 2 Wednesday 18 Oct

Digitalize in Sthlm 2023

Hybrid

On-line + In-person program

Program Chairs: Aristides Gionis, KTH and Airi Lampinen, SU

Day 3 Thursday 19 Oct

Digitalize in Sthlm 2023

Hybrid

On-line + In-person program

Program Chairs: Aristides Gionis, KTH and Airi Lampinen, SU

Day 4 Friday 20 Oct

Sthlm Talents

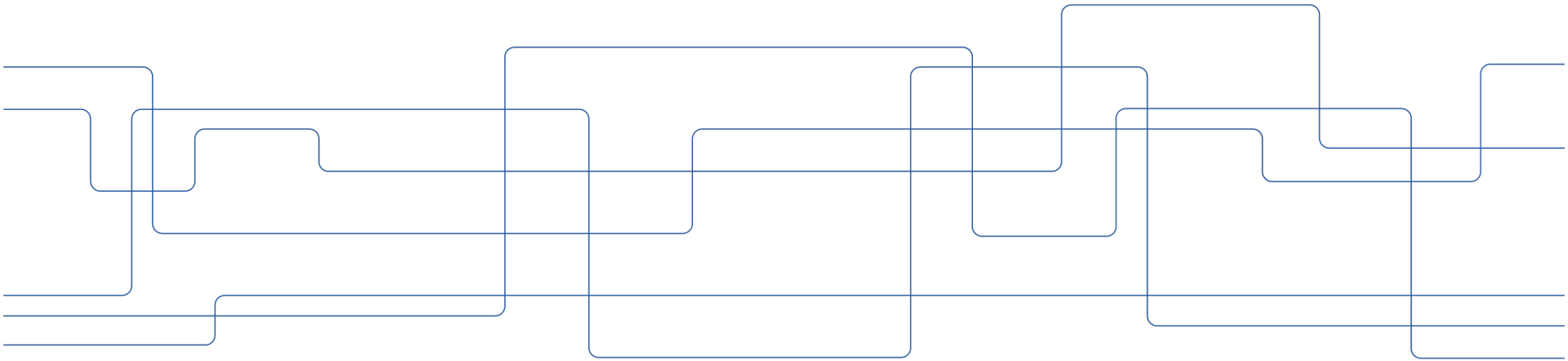
Hybrid & Onsite

Participation by registration

Stay tuned…

- Newsletter: https://www.digitalfutures.kth.se/newsletter/
- Seminar invitations: https://www.digitalfutures.kth.se/events/

Emanuel Borg, doctoral education support



KTH Intranet / EECS / Doctoral Education Support

Doctoral education support

- Admission
- Doctoral programmes
- Individual study plan (ISP)
- Courses
- Ladok certificates
- Thesis
- Public defence of doctoral thesis
- Licentiate seminar
- Links and resources
- FAQ
- Contact

KTH Intranet | Emergency | www.kth.se | KTH Intranät på svenska

My employment | Support & Service | Education | Research | Organisation & Regulations

Search the KTH Intranet | Search

KTH Intranet / EECS / Doctoral education support | Denna sida på svenska

← KTH Intranet

EECS

- Internal pages for EECS
- Organisation
- Rules and regulations
- EECS support & service
- First and second cycle education support
- Doctoral education support

Doctoral education support

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- Research support

Doctoral education support

These pages contain helpful information on third-cycle education for supervisors, doctoral students and teachers at the School of Electrical Engineering and Computer Science (EECS).

Starting studies

- Admission
- Doctoral programmes
- Individual study plan (ISP)

During studies

- Courses (doctoral students)
- Courses (teachers)
- Ladok certificates

Finalising studies

- Thesis
- Defence of doctoral thesis
- Licentiate seminar

Useful links

- Links and resources

General information

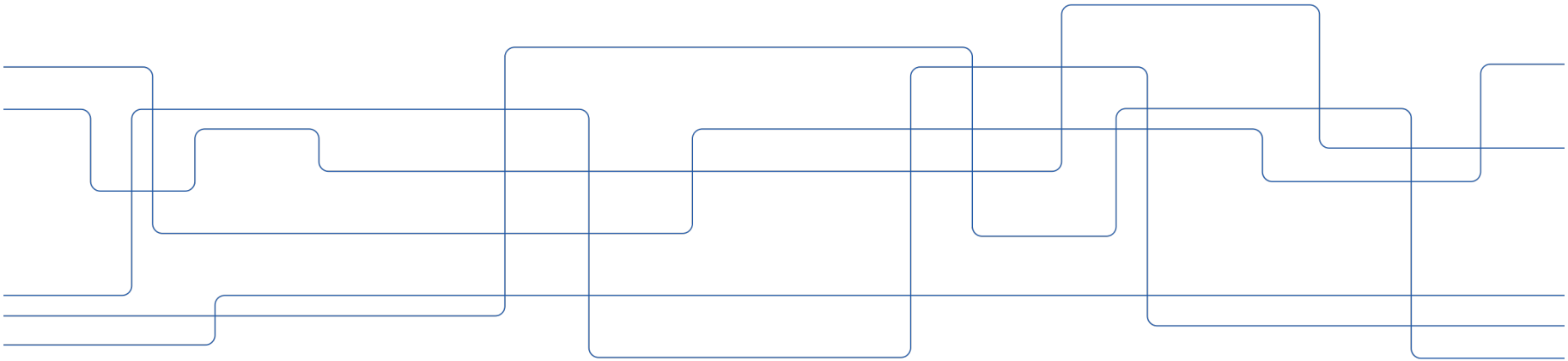
- FAQ

Find us

- Contact

HR

The employee survey, how to report unwelcome behaviour, and registering next of kin



Summary KTH Employee survey – EECS results

* Available after the next occasion
** Compared to KTH Kungliga Tekniska Högskolan

Pulse index

Change*: -

60

Benchmark**: -1

Driver	Result	Change*	Benchmark**	Distribution of answers
Autonomy	66	-	+4	19 / 98 / 188 / 124
Balance - Workload	49	-	-2	90 / 126 / 137 / 78
Clarity - Responsibilities	66	-	+1	18 / 93 / 200 / 121
Efficiency	60	-	+1	40 / 119 / 164 / 109
Enthusiasm	67	-	-2	43 / 69 / 156 / 165
Inclusion	59	-	-7	82 / 116 / 144 / 117
Recognition	54	-	-5	67 / 120 / 141 / 97
Balance - Work / leisure	44	-	-10	102 / 151 / 112 / 66
Development	69	-	+7	29 / 77 / 165 / 160
Clarity - Priorities	65	-	+4	37 / 93 / 152 / 143
[Focus] Treatment 1	78	-	+1	50 / 136 / 232
[Focus] Treatment 2	94	-	+2	71 / 356
[Focus] Treatment 3	77	-	±0	20 / 54 / 132 / 220
[Focus] Inclusion 1	67	-	±0	30 / 27 / 75 / 164 / 138
[Focus] Inclusion 2	72	-	-3	24 / 67 / 148 / 188
[Focus] Inclusion 3	70	-	+1	24 / 76 / 164 / 162
[Focus] Inclusion 4	75	-	-3	60 / 187 / 174
[Focus] Safety 1	61	-	±0	42 / 106 / 153 / 121
[Focus] Safety 2	89	-	-2	27 / 58 / 334
[Focus] Treatment 4	90	-	+1	44 / 390
[Focus] Treatment 5	70	-	-4	131 / 303
[Focus] Treatment 6	68	-	±0	138 / 296

Results

- Similar results between departments and divisions
- Enthusiasm and development
- Workload/balance
- Where to turn when you experience discrimination, harassment or other unwelcome behaviour

What next?

- Discussion and activities in each division and on school management level
- Next survey 9 May – theme: organisation and leadership

Where to turn for support

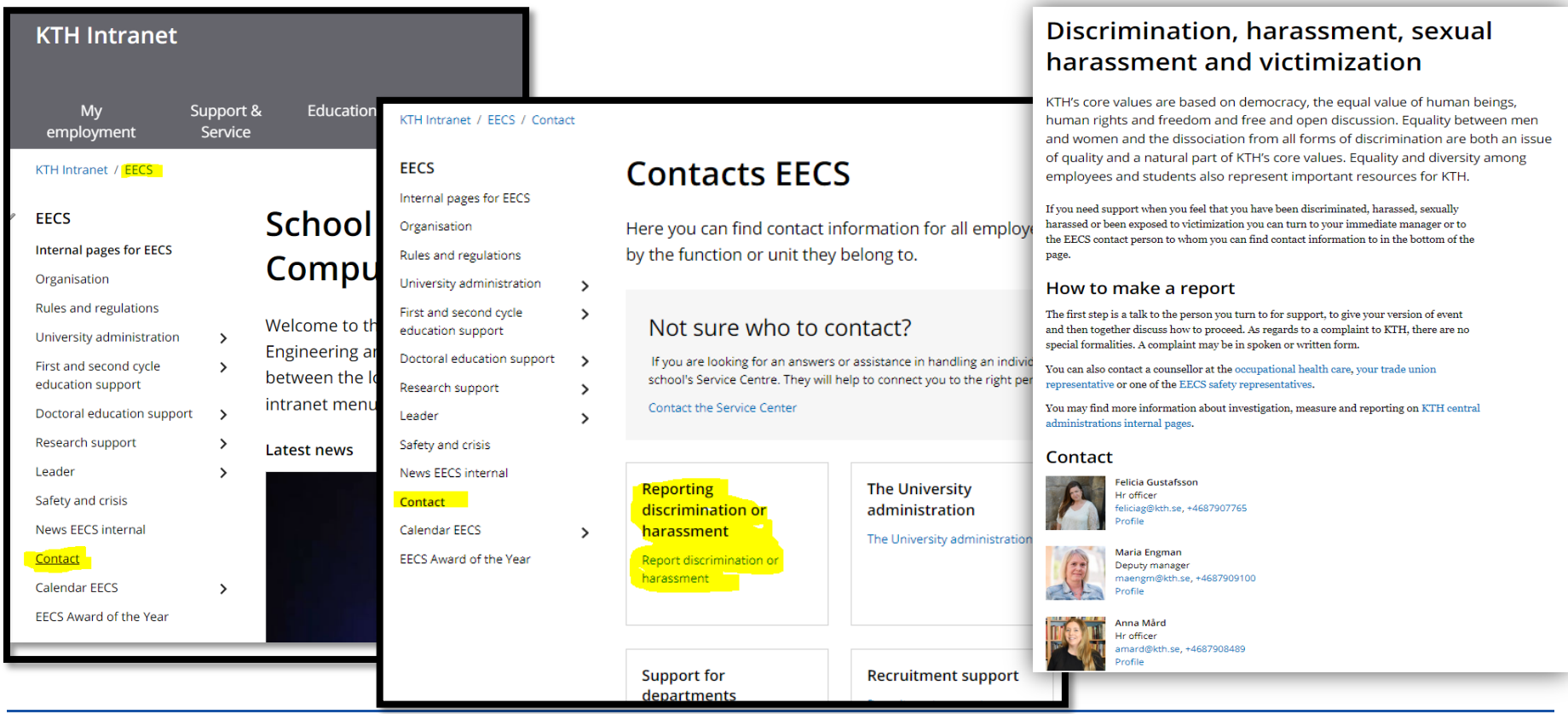
For employees

- Your manager, supervisor or HR
- EECS contact persons (HR): Felicia Gustafsson , Anna Mård, Maria Engman
- Safety representatives (Skyddsombud)
- Occupational Health care (Avonova)

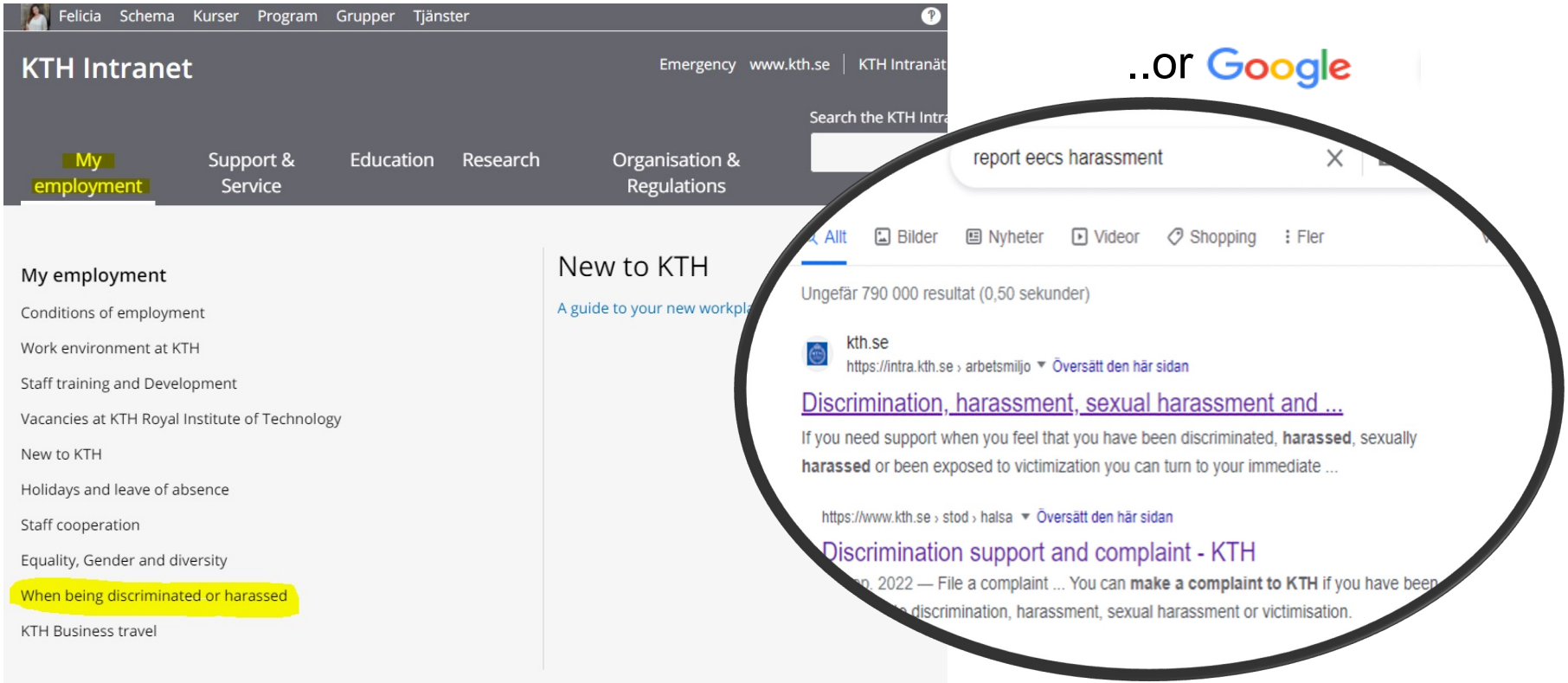
For students

- EECS contact person (Student Affairs): Sofia Norlander
- Student Health Services (Studenthälsan)
- Student Union THS – student head of educational affairs
- Student web – form - make a complaint/ report (anonymous complaint possible)

How to find information – EECS intranet

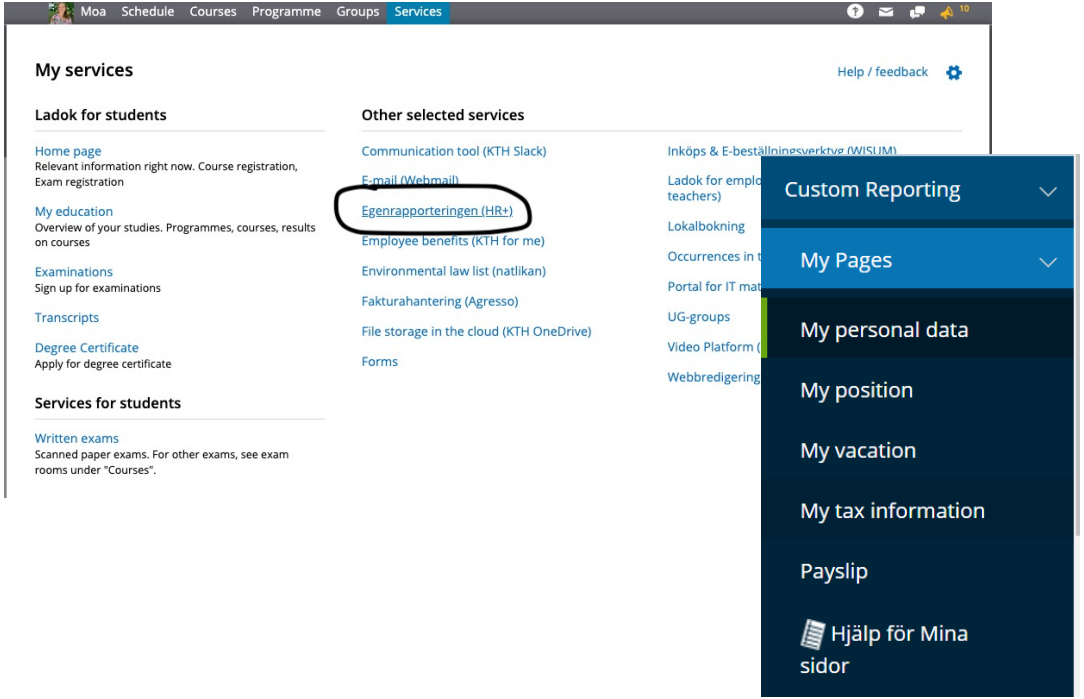


How to find information – "My employment"



HR: Add a next of kin in the Self-reporting System

- We encourage you to name at least one relative/next of kin who can be contacted in case of emergency
- Update information



What's next?

- **What should we call these meetings?** Several suggestions submitted – vote for your favourite via pEECS
- We will share this PowerPoint after the meeting – link in Slack #eecs-general
- Next Staff meeting on 1 June in F2, KTH Campus.

Q & A