

TEK GRADUATE SURVEY 2020

RESULTS



TEK GRADUATE SURVEY 2020

RESULTS

Tek Graduate Survey 2020

Academic Engineers and Architects in Finland TEK and Finnish universities in technology together carry out a yearly feedback survey for graduated academic engineers and architects.

The feedback and results are utilized in developing university education and influencing the educational policy making.

TEK is responsible of accomplishing the survey and the universities are responsible of reaching their new graduates.

The survey is directed by a Directory Board having a representative from every participating university.

More information, results and resources:

www.tek.fi/vastavalmistuneet

Contact:

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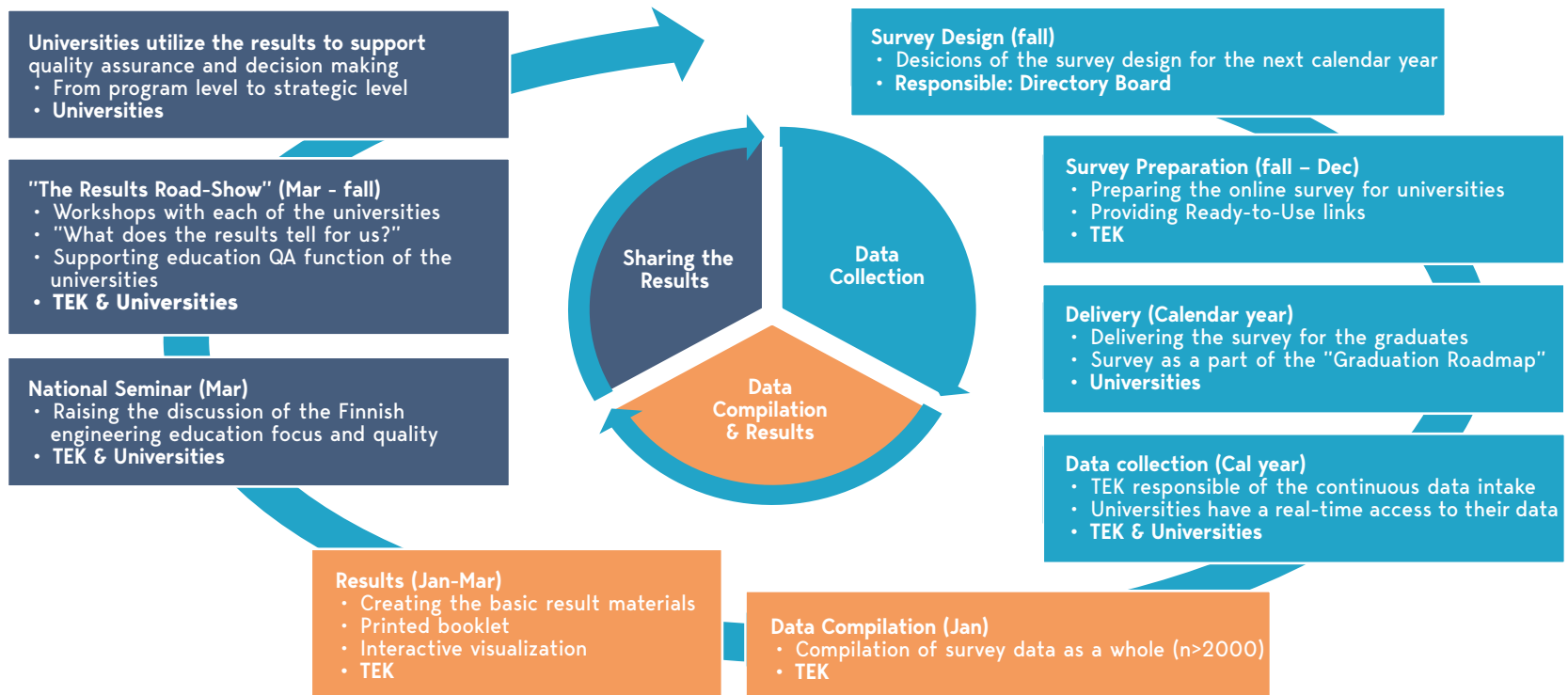
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Participating universities and schools

UNIVERSITIES AND SCHOOLS	ABBREVIATION	LOCAL CONTACT
1. Aalto University	Aalto ALL	
School of Chemical Engineering	Aalto CHEM	Niina Arppe
School of Electrical Engineering	Aalto ELEC	Antti Ojapelto
School of Engineering	Aalto ENG	Nelli Markula
School of Science	Aalto SCI	Tarja Timonen
School of Arts, Design and Architecture	Aalto ARTS	Tuula Jääskeläinen
2. Tampere University	TAU	Sari Leinonen
3. LUT University	LUT	Annikka Nurkka
4. University of Oulu	UO	Helena Tirri
5. University of Turku	UT	Saija Salonen
6. Åbo Akademi University	ÅAU	Kerstin Fagerström
7. University of Vaasa	UV	Kati Kangasniemi

Yearly cycle of collaboration

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1. BASICS

Number of graduates, responses and response rates 2020

Response rates 2013-2020

Number of answers 2013-2020

Educational areas within universities and schools

Gender

Nationality

Age at the time of graduation

Number of graduates and responses 2020

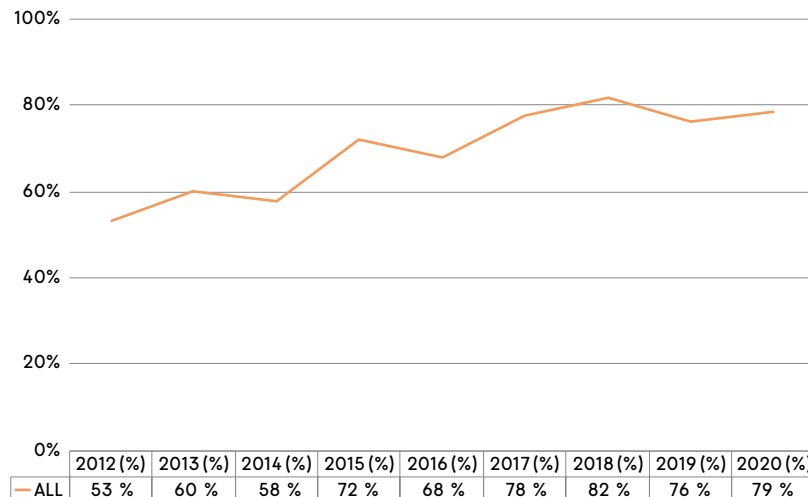
Sarake1	ALL	Aalto ARTS*	Aalto CHEM	Aalto ELEC	Aalto ENG	Aalto SCI	Aalto ALL	TAU	LUT	UO	UT**	ÅAU	UV
Graduates 2020 in the scope of the TEK Graduate Survey	3003	71	89	229	328	402	1119	834	525	345	60	69	51
Answers (n)	2366	71	70	188	286	372	987	653	490	84	57	53	42
Answer rate (%)	79 %	100 %	79 %	82 %	87 %	93 %	88 %	78 %	93 %	24 %	95 %	77 %	82 %

* Not including the M.Sc (Arts) graduates from Aalto ARTS.

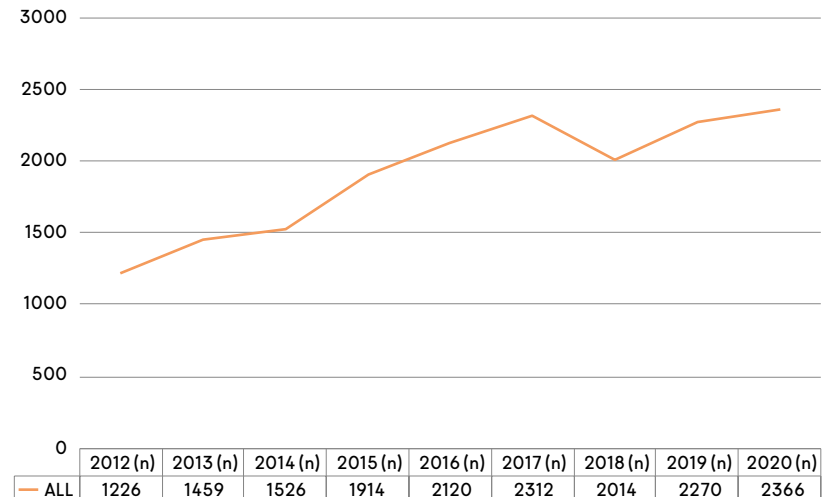
** Not including the students from the commissioned degree programmes or the international double degree programmes.

Answers and answer rates

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TEK Graduate Survey: Answer rate (%)



TEK Graduate Survey: Answers (n)

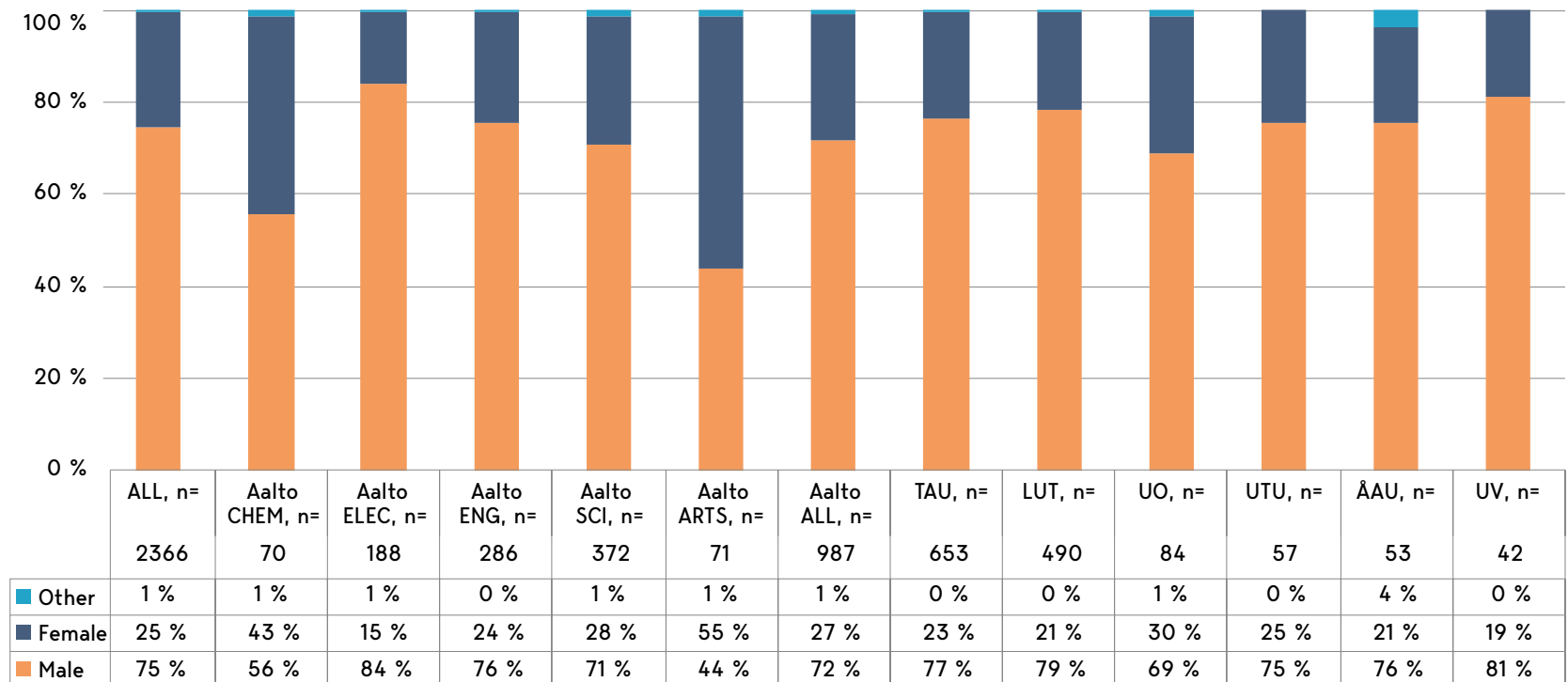
Educational areas within the universities and schools

Educational area		ALL	Aalto CHEM	Aalto ELEC	Aalto ENG	Aalto SCI	Aalto ARTS	Aalto ALL	TAU	LUT	UO	UT	ÅAU	UV
Mechanical & Energy Engineering	Mechanical Engineering	11 %			35 %			10 %	11 %	18 %	16 %			
	Energy Engineering	6 %			15 %			4 %		15 %				71 %
Electrical & Automation Engineering	Electrical Engineering	12 %		71 %				14 %	11 %	14 %	10 %			
	Automation Engineering	3 %		2 %					9 %					
	Engineering Physics	2 %				8 %		3 %		5 %				
	Science and Engineering	2 %				5 %		2 %	4 %					
	Information Technology	21 %		8 %		72 %		29 %	14 %	7 %	16 %	81 %	32 %	
Process & Materials Engineering	Telecommunications Technology	2 %		19 %				4 %			4 %			7 %
	Chemical Engineering	6 %	100 %					7 %		8 %			68 %	
	Process Engineering	1 %									20 %			
	Environmental Engineering	3 %							3 %	7 %	7 %			
	Materials Technology, Rock Engineering	1 %							3 %					
Building Construction & Surveying Technology	Biotechnology	1 %							3 %			19 %		
	Building Construction, Community Development	8 %			27 %			8 %	16 %		8 %			
Industrial Management	Surveying Technology	3 %			24 %			7 %						
	Industrial management	14 %				16 %		6 %	18 %	28 %	16 %			21 %
Architecture	Architecture	5 %					78 %	5 %	8 %		4 %			
	Landscape Architecture	1 %					22 %	2 %						

Based on classification of the university specific degree and master's programs, which was done by the universities themselves.

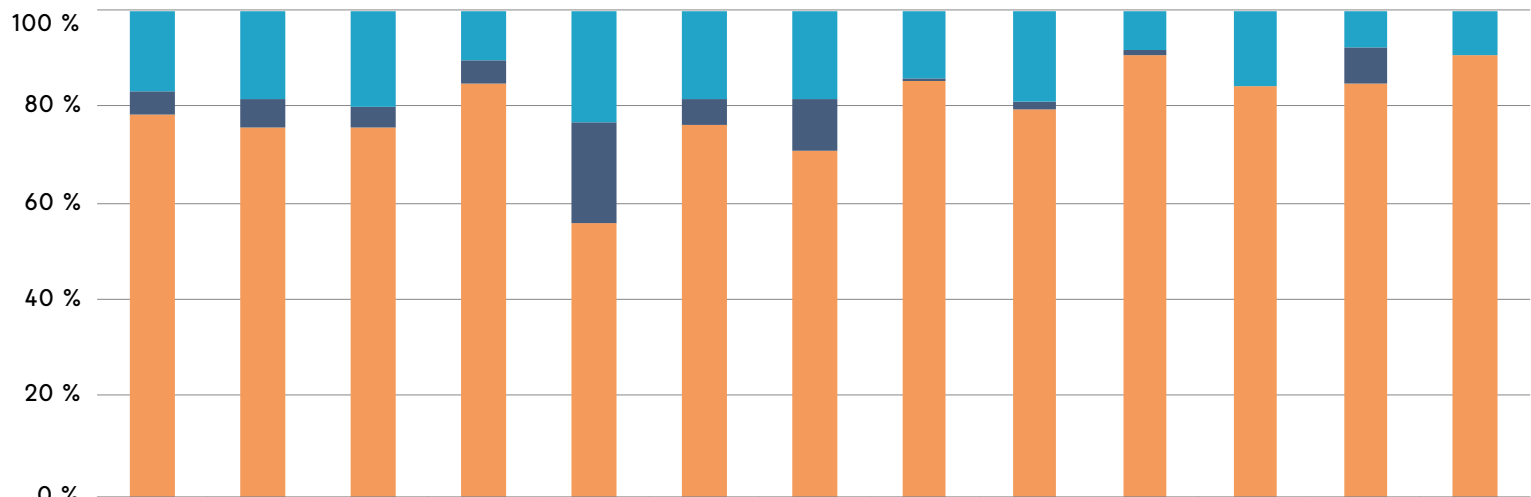
Gender

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Nationality

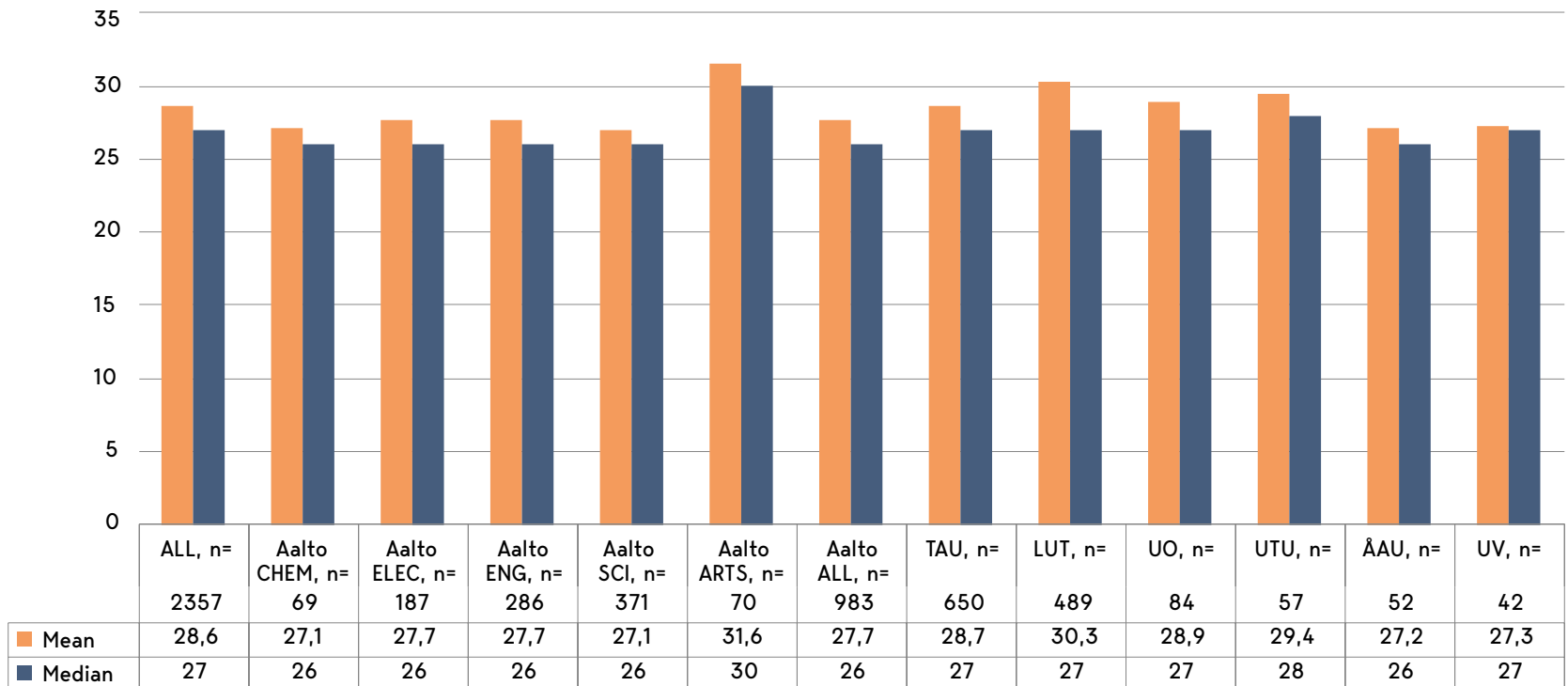
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	ALL, n= 2365	Aalto CHEM, n= 70	Aalto ELEC, n= 188	Aalto ENG, n= 286	Aalto SCI, n= 371	Aalto ARTS, n= 71	Aalto ALL, n= 986	TAU, n= 653	LUT, n= 490	UO, n= 84	UTU, n= 57	ÅAU, n= 53	UV, n= 42
Other outside EU	17 %	19 %	20 %	11 %	24 %	18 %	18 %	14 %	19 %	8 %	16 %	8 %	10 %
Other within EU	5 %	6 %	4 %	5 %	21 %	6 %	11 %	1 %	1 %	1 %	0 %	8 %	0 %
Finnish	78 %	76 %	76 %	85 %	56 %	76 %	71 %	85 %	79 %	91 %	84 %	85 %	91 %

Age at the time of graduation

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2. STUDIES

Degree and location of graduation before Master's studies

Exchange studies or working abroad

Absence from the studies during studies in Finland

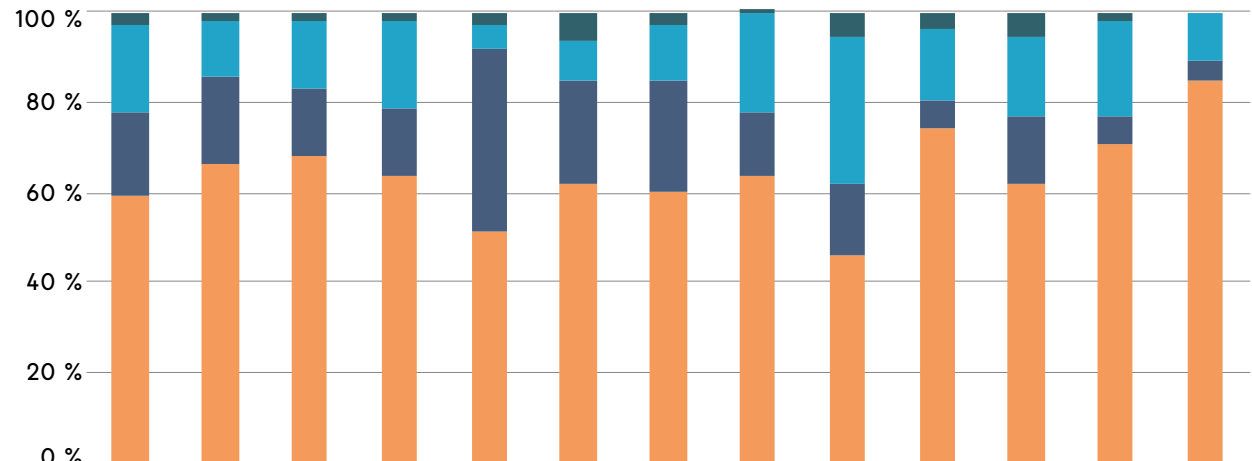
Delays in studies or graduation

Reasons for the delays

B.Sc. Studies

Degree and location of studies before Master's studies

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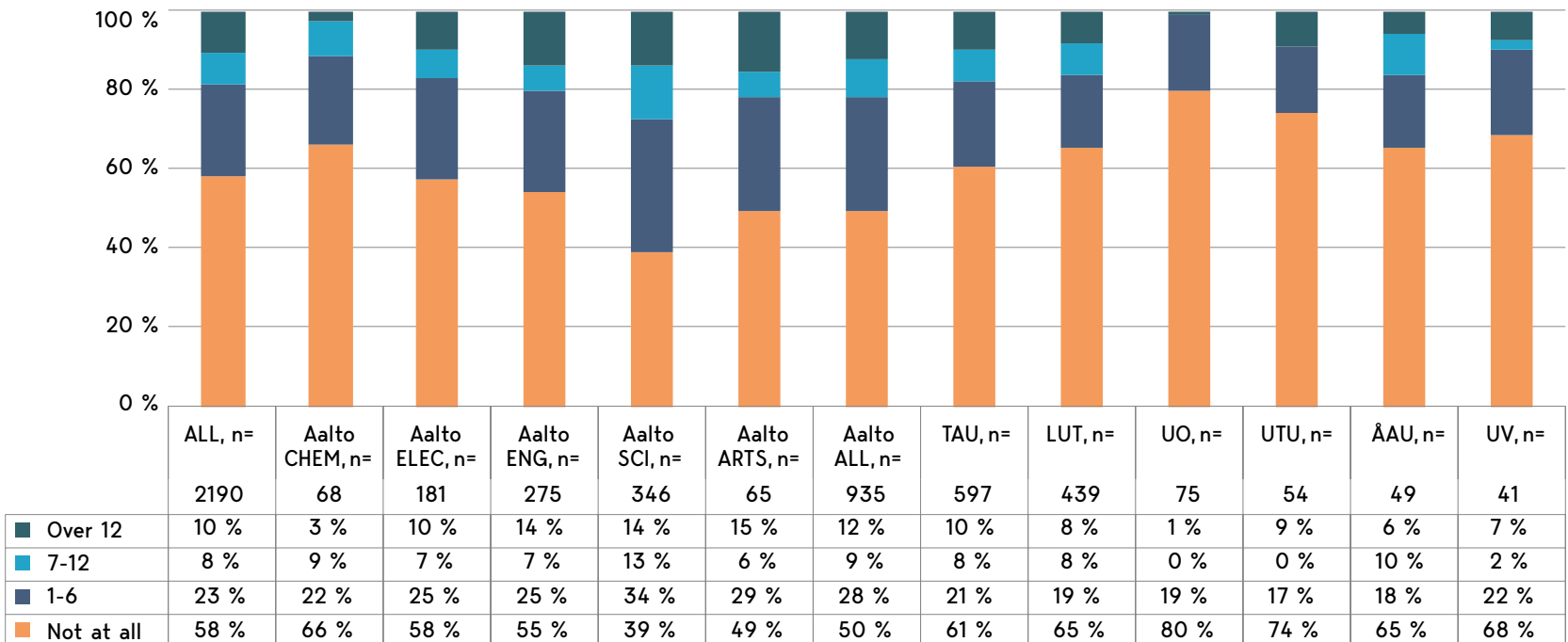


	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	2223	69	176	276	328	65	914	622	469	78	53	48	39
Other	3 %	1 %	2 %	2 %	3 %	6 %	3 %	1 %	5 %	4 %	6 %	2 %	0 %
B.Sc. from a university of applied sciences	20 %	13 %	15 %	19 %	6 %	9 %	12 %	22 %	33 %	15 %	17 %	21 %	10 %
B.Sc. at another university	18 %	19 %	15 %	16 %	40 %	23 %	25 %	14 %	16 %	6 %	15 %	6 %	5 %
B.Sc. at your current university	59 %	67 %	68 %	63 %	52 %	62 %	60 %	64 %	46 %	74 %	62 %	71 %	85 %

Exchange studies or working abroad

Exchange studies or working abroad during studies in Finland, months

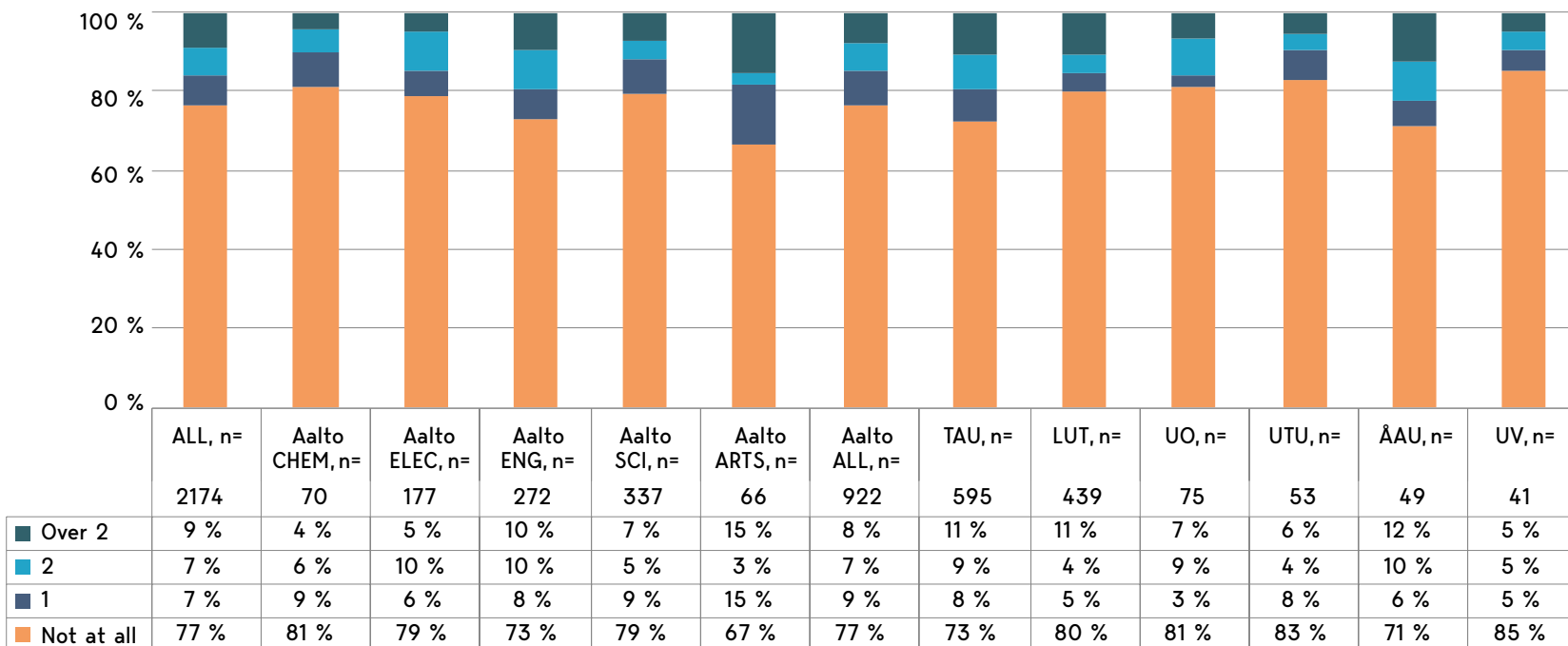
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Absence

Absence from the studies during studies in Finland, semesters

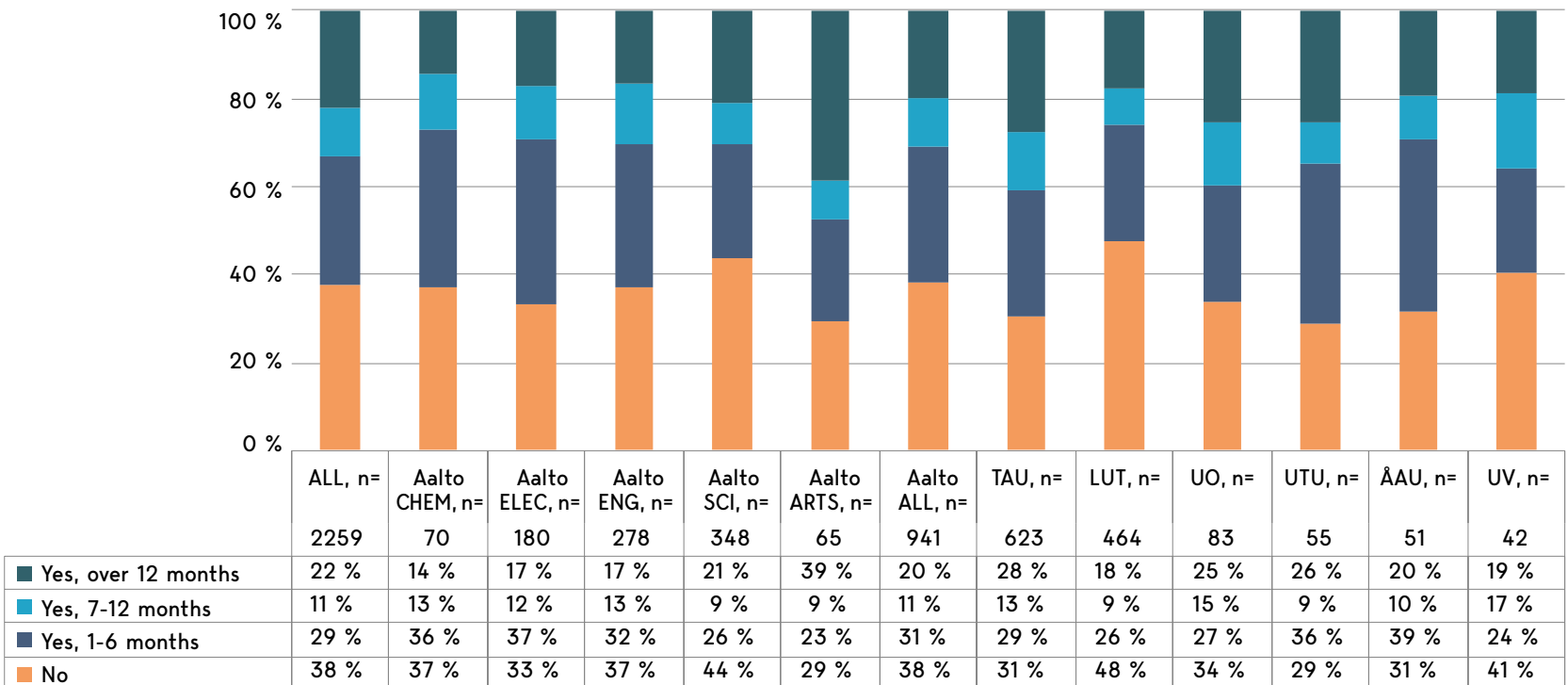
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Delays in studies or graduation

Delays in studies or graduation

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Delays in studies or graduation

Reason for the delay, if delayed.	ALL, n=1409	Aalto CHEM, n=44	Aalto ELEC, n=120	Aalto ENG, n=174	Aalto SCI, n=196	Aalto ARTS, n=46	Aalto ALL, n=580	TAU, n=432	LUT, n=243	UO, n=55	UT, n=39	ÅAU, n=35	UV, n=25
Working during the studies.	55 %	41 %	45 %	47 %	59 %	65 %	52 %	63 %	53 %	49 %	64 %	34 %	56 %
Delay in finding a place or subject for the thesis work.	23 %	16 %	20 %	20 %	22 %	15 %	20 %	26 %	23 %	36 %	13 %	29 %	12 %
Other matters related to master's thesis or graduation.	16 %	16 %	19 %	18 %	15 %	9 %	17 %	16 %	14 %	11 %	13 %	14 %	24 %
Insufficient motivation for studies.	15 %	14 %	17 %	17 %	15 %	11 %	16 %	14 %	12 %	22 %	15 %	3 %	28 %
Personal issues, eg- health problems.	13 %	7 %	14 %	10 %	17 %	24 %	14 %	13 %	12 %	15 %	10 %	3 %	8 %
COVID-19	10 %	27 %	14 %	12 %	12 %	7 %	13 %	5 %	9 %	13 %	8 %	11 %	0 %
Family issues.	10 %	5 %	6 %	10 %	4 %	15 %	7 %	12 %	15 %	13 %	13 %	9 %	12 %
Overlaps and incompatibilities in the course schedules.	10 %	14 %	8 %	11 %	6 %	13 %	9 %	11 %	9 %	9 %	3 %	17 %	8 %
Spending time as an exchange student.	10 %	11 %	10 %	10 %	6 %	13 %	9 %	13 %	8 %	4 %	8 %	6 %	8 %
Insufficient Master's thesis guidance.	8 %	7 %	13 %	10 %	7 %	9 %	9 %	7 %	6 %	7 %	13 %	6 %	8 %
Military or civil service.	7 %	11 %	5 %	10 %	10 %	4 %	9 %	5 %	4 %	7 %	8 %	0 %	8 %
Taking part in the student organization(s') activities.	7 %	5 %	9 %	7 %	9 %	15 %	9 %	4 %	5 %	5 %	5 %	20 %	8 %
Studies as a whole (amount & quality)	4 %	5 %	3 %	3 %	4 %	9 %	4 %	4 %	3 %	5 %	3 %	3 %	4 %
Insufficient study guidance.	4 %	5 %	3 %	3 %	5 %	7 %	4 %	4 %	4 %	4 %	10 %	14 %	0 %
Insufficient studying skills.	4 %	2 %	1 %	2 %	5 %	7 %	3 %	5 %	3 %	5 %	5 %	6 %	0 %
Not having a job to take up after graduating.	3 %	2 %	2 %	1 %	3 %	4 %	2 %	3 %	4 %	4 %	0 %	0 %	4 %
Some other reason.	2 %	14 %	4 %	0 %	1 %	4 %	3 %	1 %	2 %	0 %	0 %	6 %	4 %
Active free time (eg. Sports, travelling)	1 %	2 %	2 %	1 %	1 %	0 %	1 %	0 %	0 %	0 %	0 %	0 %	0 %

3. EXPERTISE AND SKILLS

Items and Factors

Factor means

Importance

Development in studies

Development in work

Item means

Items and factors

ITEMS IN FACTORS OF EXPERTISE					
Communication and Information processing	Social skills	Business and Management	Expertise and substance knowledge	Working Life Skills	Analytical skills
Written communication	Leadership	Sustainable development	Know-how of own field	Working independently	Self-knowledge
Oral communication	Team working	Basics of business operations	Knowledge of the research of own field	Problem solving	Self-confidence
Visual communication	Social skills	Entrepreneurial capacities	Knowledge of the history and development of own field	Information retrieval	Creativity
Digitalization and utilization of data			Mathematics and natural science	International work environment	Critical thinking skills
			Practical application of theories	Project management	Analytical thinking skills
				Time management and of prioritizing	Ethicality
				Developing own skills in working life	
				Career management capacities	

METHOD:

With the following two questions, the respondents were asked to assess each of the 29 areas of expertise and skills from three different viewpoints:

1. "How important do you think the following areas of expertise are for your career?"
2. "Please compare how much the following areas of expertise developed in your studies and how much due to your work experience during your studies?"

A 7-point answer scale were used, where value (1) represented the option "Not at all" and (6) the option "Very much".

Respondents who chose "Unable to answer" (7) were excluded when calculating the means.

Based on factor analysis, the areas of expertise were classified in to 6 categories ("Factors").

Factor means

FACTORS OF EXPERTISE, MEANS														
Focus	Factor	ALL	Aalto CHEM	Aalto ELEC	Aalto ENG	Aalto SCI	Aalto ARTS	Aalto ALL	TAU	LUT	UO	UT	ÅAU	UV
Importance	Expertise and Substance Knowledge	4,8	5,1	4,9	4,9	4,8	4,9	4,9	4,8	4,9	4,8	4,8	4,8	4,7
	Business and Management	4,4	4,5	4,3	4,5	4,5	4,6	4,4	4,4	4,5	4,3	4,3	4,5	4,4
	Working Life Skills	5,5	5,6	5,5	5,5	5,5	5,5	5,5	5,4	5,4	5,4	5,4	5,3	5,5
	Communication and Information Processing	5,0	5,0	5,0	5,0	5,2	5,1	5,1	4,9	5,0	4,8	4,7	4,8	4,9
	Social Skills	5,2	5,3	5,1	5,3	5,3	5,4	5,3	5,2	5,3	5,1	5,1	5,1	5,2
	Analytical Skills	5,2	5,3	5,2	5,2	5,3	5,5	5,3	5,1	5,2	5,0	5,1	5,1	4,9
Development in studies	Expertise and Substance Knowledge	4,7	4,8	4,8	4,7	4,8	4,7	4,8	4,7	4,7	4,6	4,7	4,7	4,5
	Business and Management	3,9	4,1	3,8	4,0	4,0	3,2	3,9	3,9	4,2	3,5	3,8	3,9	3,9
	Working Life Skills	4,8	5,0	4,9	4,9	4,8	4,7	4,9	4,7	4,8	4,6	4,5	4,6	4,7
	Communication and Information Processing	4,6	4,7	4,8	4,6	4,9	4,7	4,7	4,4	4,5	4,4	4,7	4,4	4,5
	Social Skills	4,6	4,7	4,6	4,7	4,7	4,7	4,7	4,5	4,6	4,4	4,4	4,7	4,6
	Analytical Skills	4,7	4,8	4,8	4,8	4,8	5,0	4,8	4,6	4,7	4,5	4,5	4,7	4,5
Development in studies	Expertise and Substance Knowledge	4,2	4,6	4,4	4,2	4,2	4,1	4,3	4,2	4,2	4,2	4,3	4,1	4,4
	Business and Management	3,8	3,9	3,9	3,9	3,9	3,6	3,9	3,7	3,8	3,4	3,6	3,7	3,9
	Working Life Skills	5,0	5,1	5,2	5,0	5,1	4,7	5,1	5,0	4,9	4,8	5,0	4,8	5,1
	Communication and Information Processing	4,4	4,5	4,6	4,3	4,6	4,2	4,5	4,3	4,4	4,0	4,4	4,1	4,5
	Social Skills	4,6	4,7	4,6	4,6	4,7	4,6	4,7	4,6	4,6	4,4	4,7	4,8	4,8
	Analytical Skills	4,7	4,8	4,8	4,7	4,8	4,4	4,7	4,7	4,7	4,5	4,8	4,6	4,8

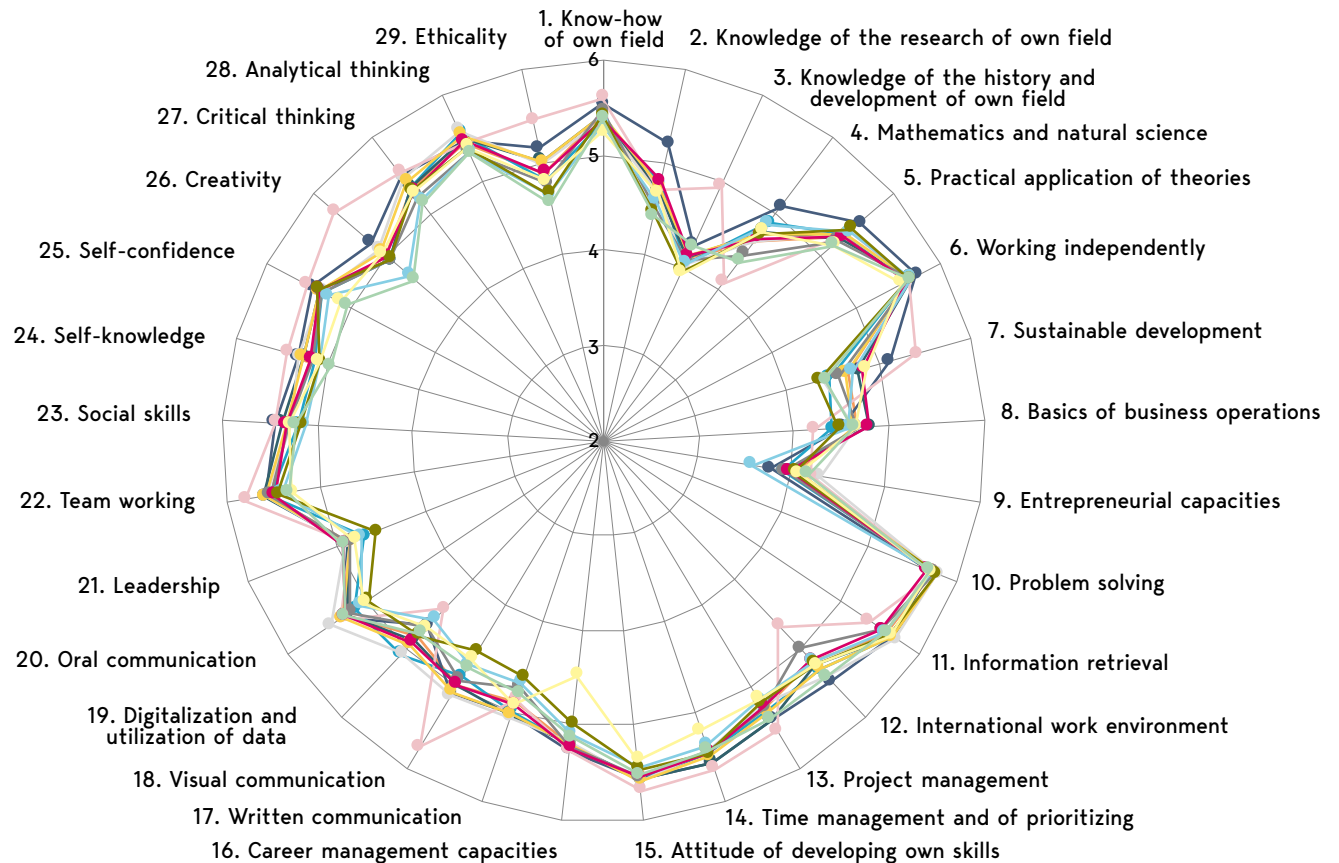
Expertise and skills: Importance

Percieved importance for own career

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SCALE
 1 = Not at all (important)
 2 = Very little
3 = Little
4 = Somewhat
5 = Much
6 = Very much
 (7 = Cannot answer)

- ALL, n= 2201
- Aalto CHEM, n= 69
- Aalto ELEC, n= 183
- Aalto ENG, n= 262
- Aalto SCI, n= 330
- Aalto ARTS, n= 63
- Aalto ALL, n= 907
- TUNI, n= 615
- LUT, n= 474
- UO, n= 79
- UTU, n= 52
- ÅAU, n= 50
- UV, n= 24



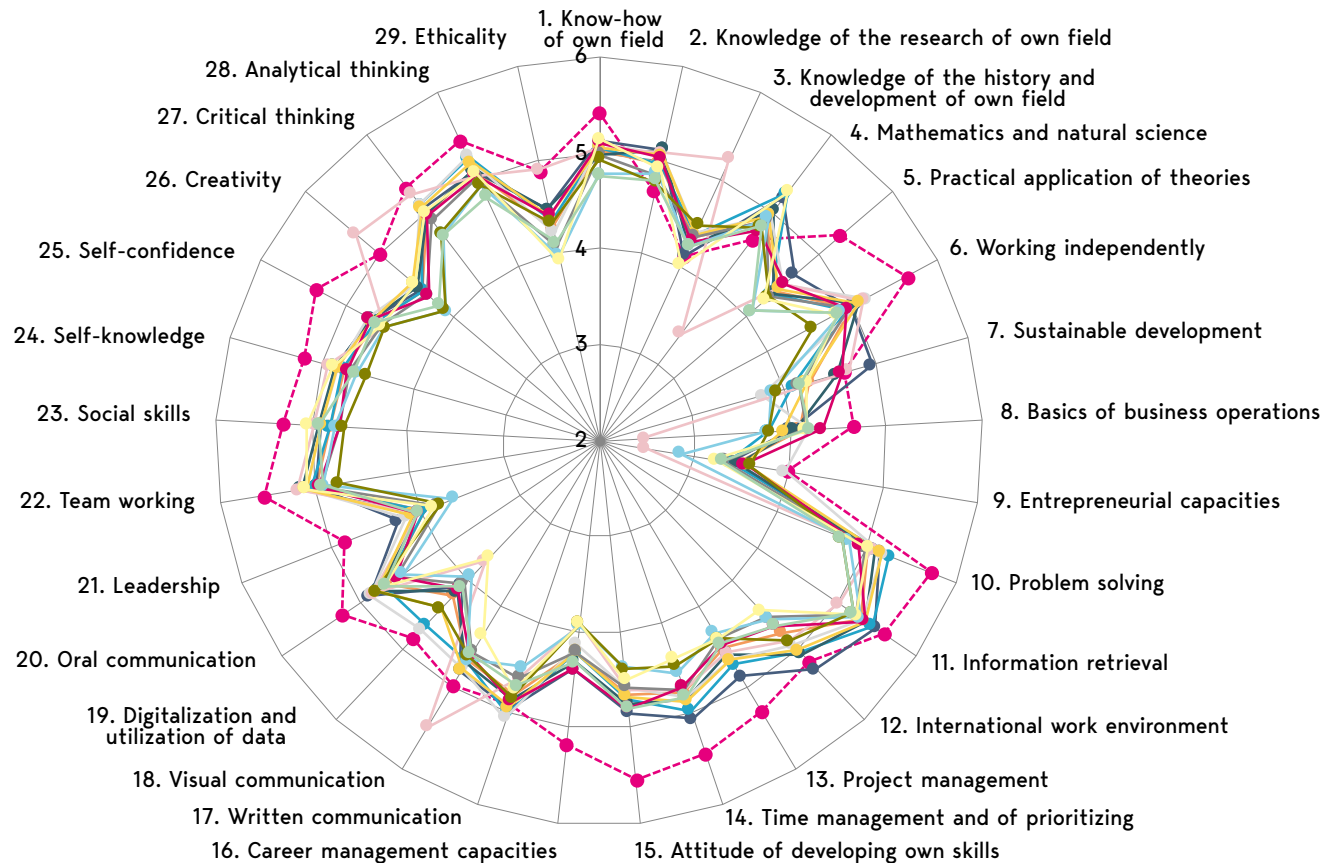
Expertise and skills: Development

Percieved development in studies

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = **Little**
 4 = **Somewhat**
 5 = **Much**
 6 = **Very much**
 (7 = Cannot answer)

- IMPORTANCE ALL
- ALL
- Aalto CHEM
- Aalto ELEC
- Aalto ENG
- Aalto SCI
- Aalto ARTS
- Aalto ALL
- TUNI
- LUT
- UO
- UTU
- ÅAU
- UV



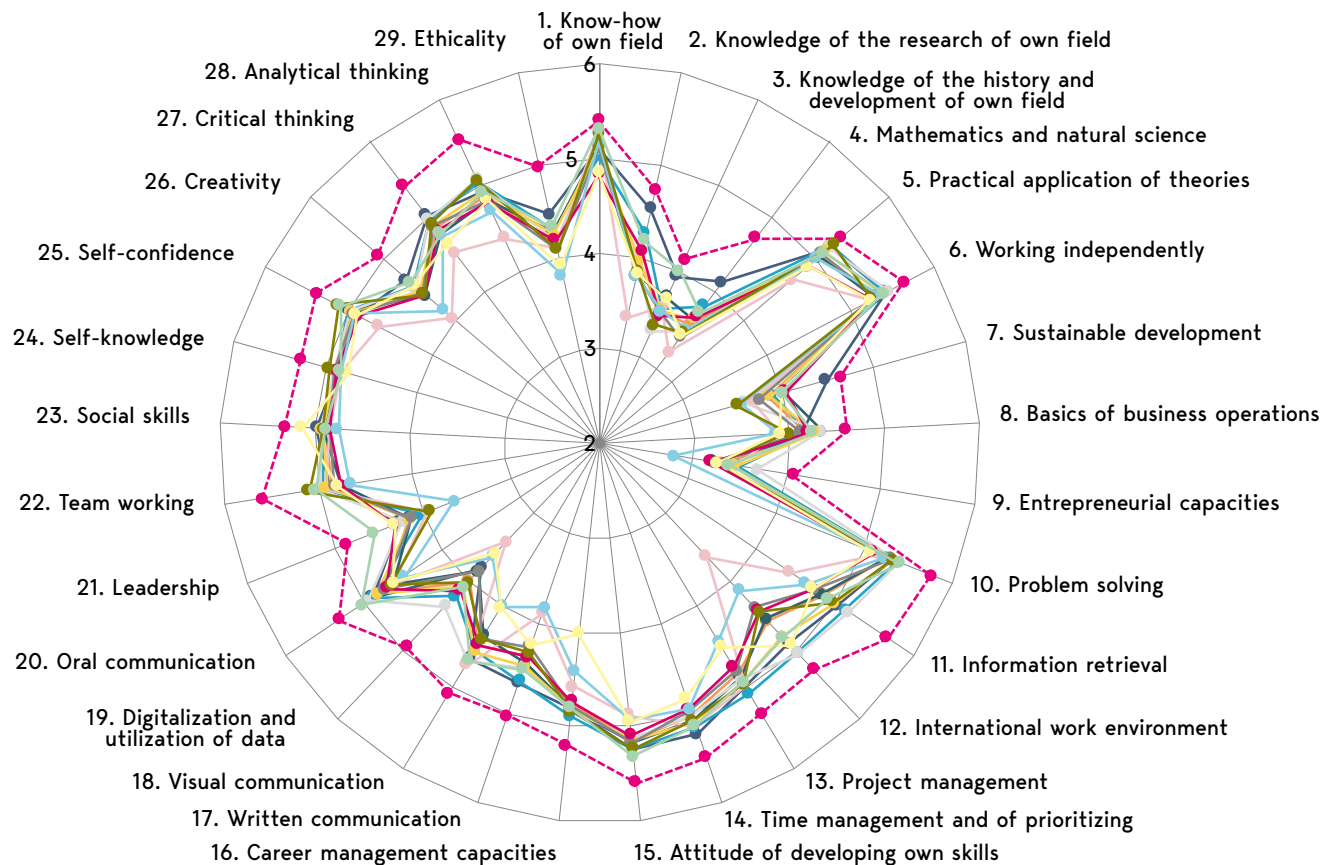
Expertise and skills: Development

Percieved development in work

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 1 = Not at all (important)
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3 = Little
4 = Somewhat
5 = Much
6 = Very much
 (7 = Cannot answer)

- IMPORTANCE ALL
- ALL
- Aalto CHEM
- Aalto ELEC
- Aalto ENG
- Aalto SCI
- Aalto ARTS
- Aalto ALL
- TUNI
- LUT
- UO
- UTU
- ÅAU
- UV



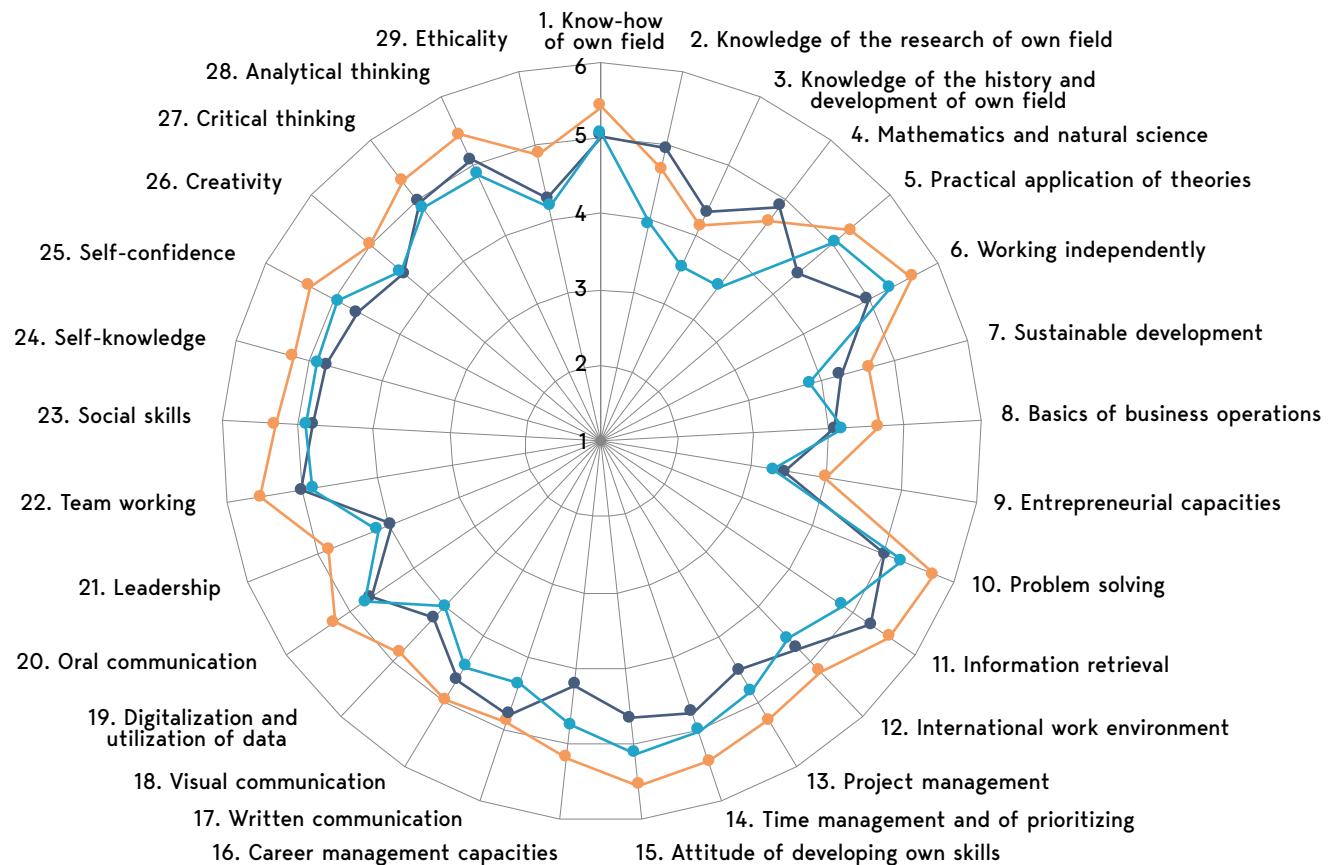
Expertise and skills

ALL, n= 2201

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SCALE
 1 = Not at all (important)
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—●— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



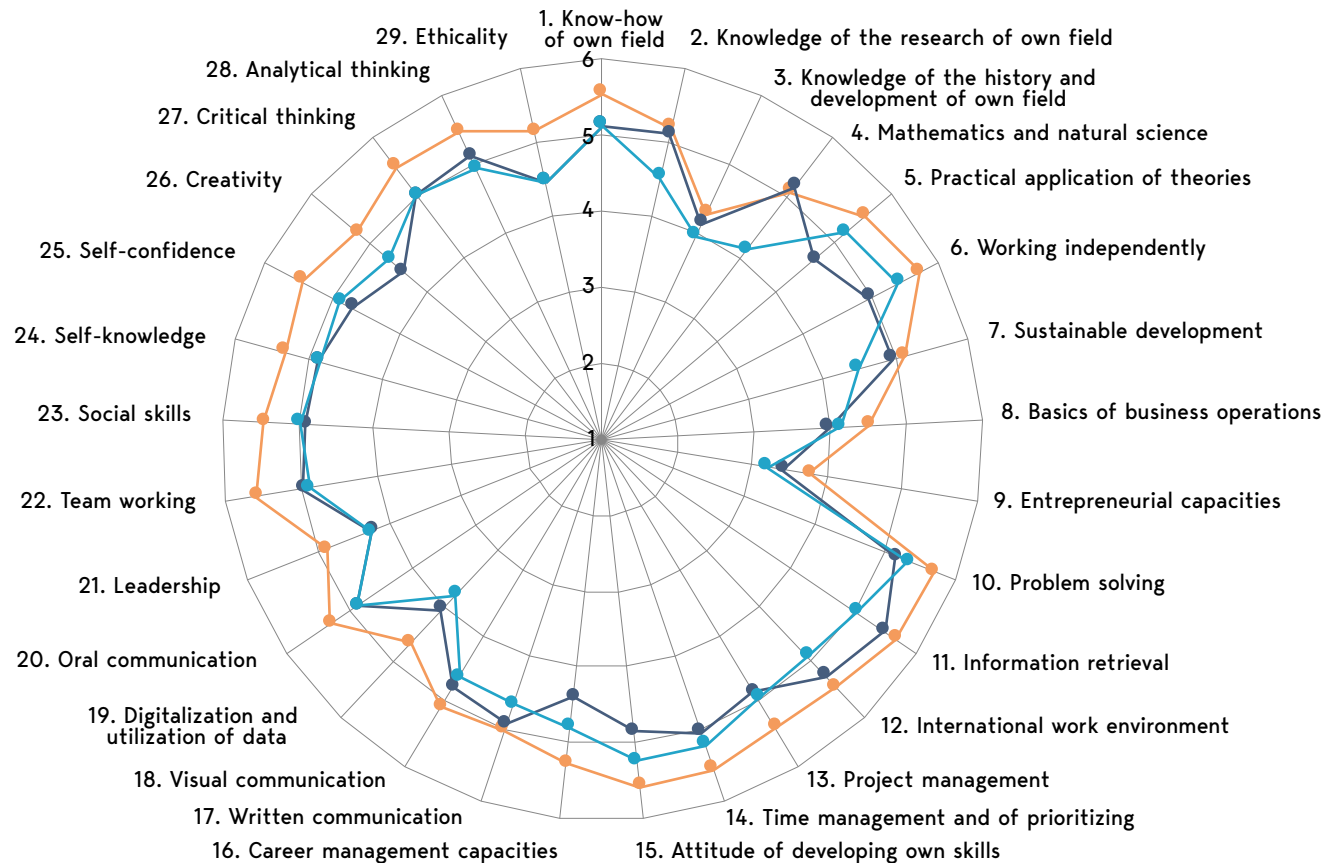
Expertise and skills

Aalto CHEM, n= 69

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 1 = Not at all (important)
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 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



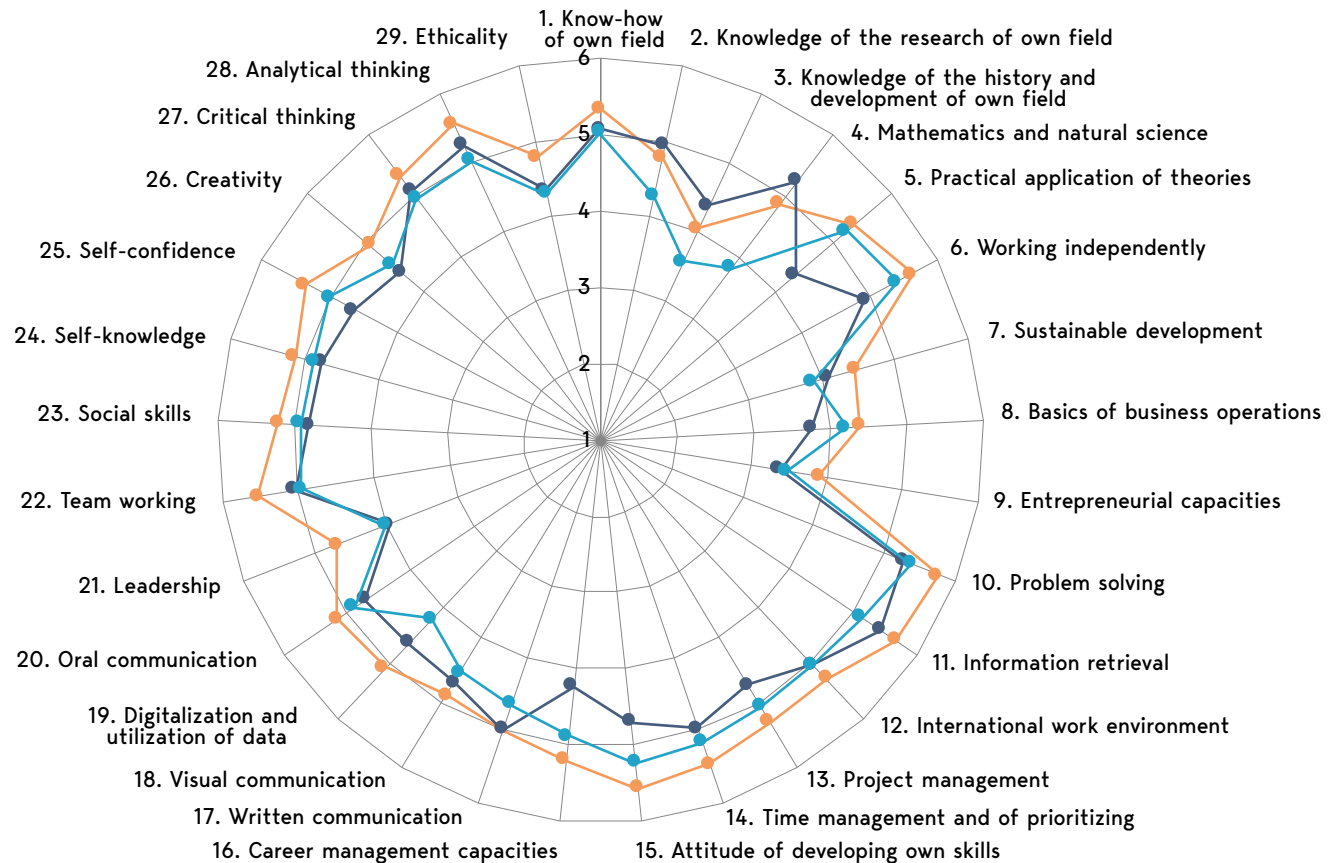
Expertise and skills

Aalto ELEC, n= 183

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SCALE
 1 = Not at all (important)
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 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



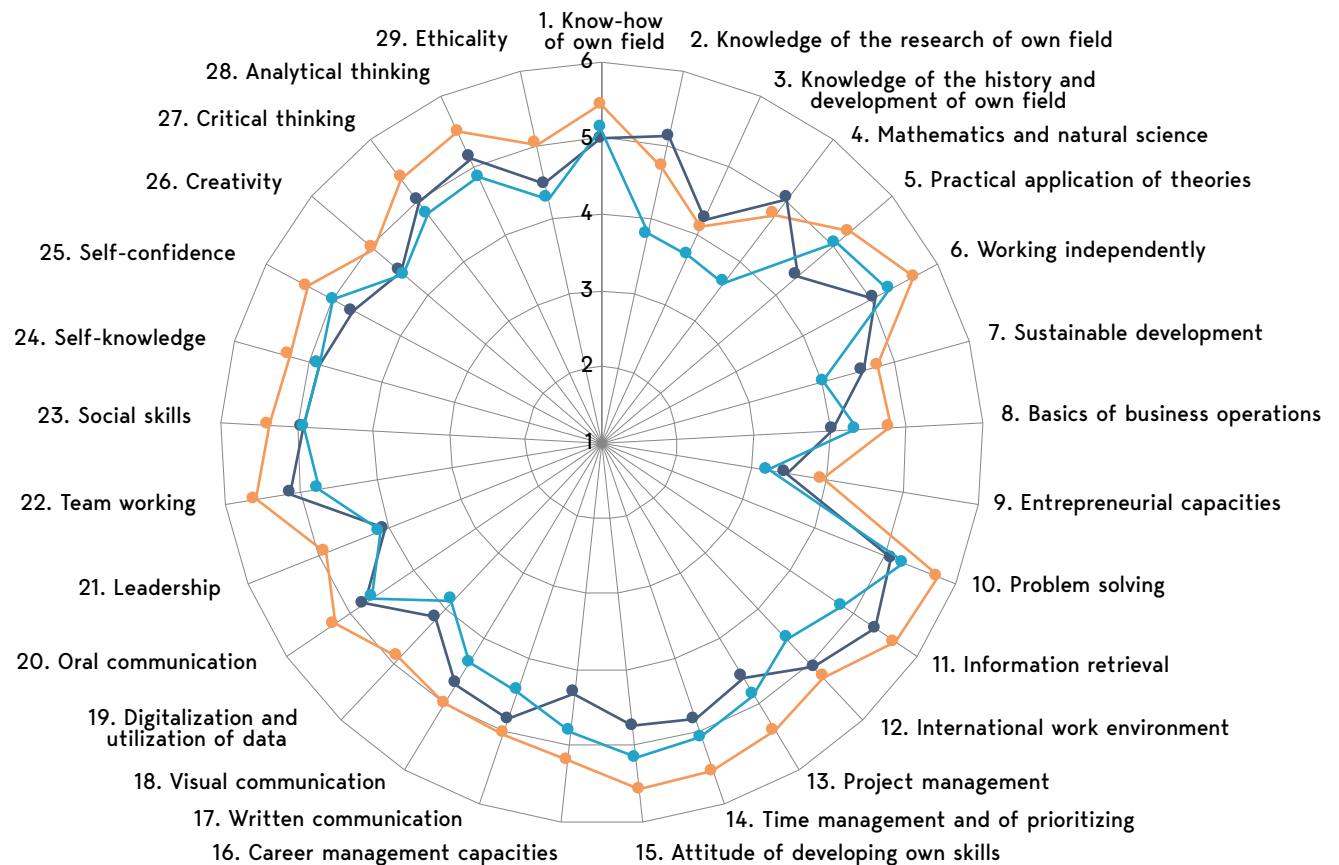
Expertise and skills

Aalto ENG, n= 262

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



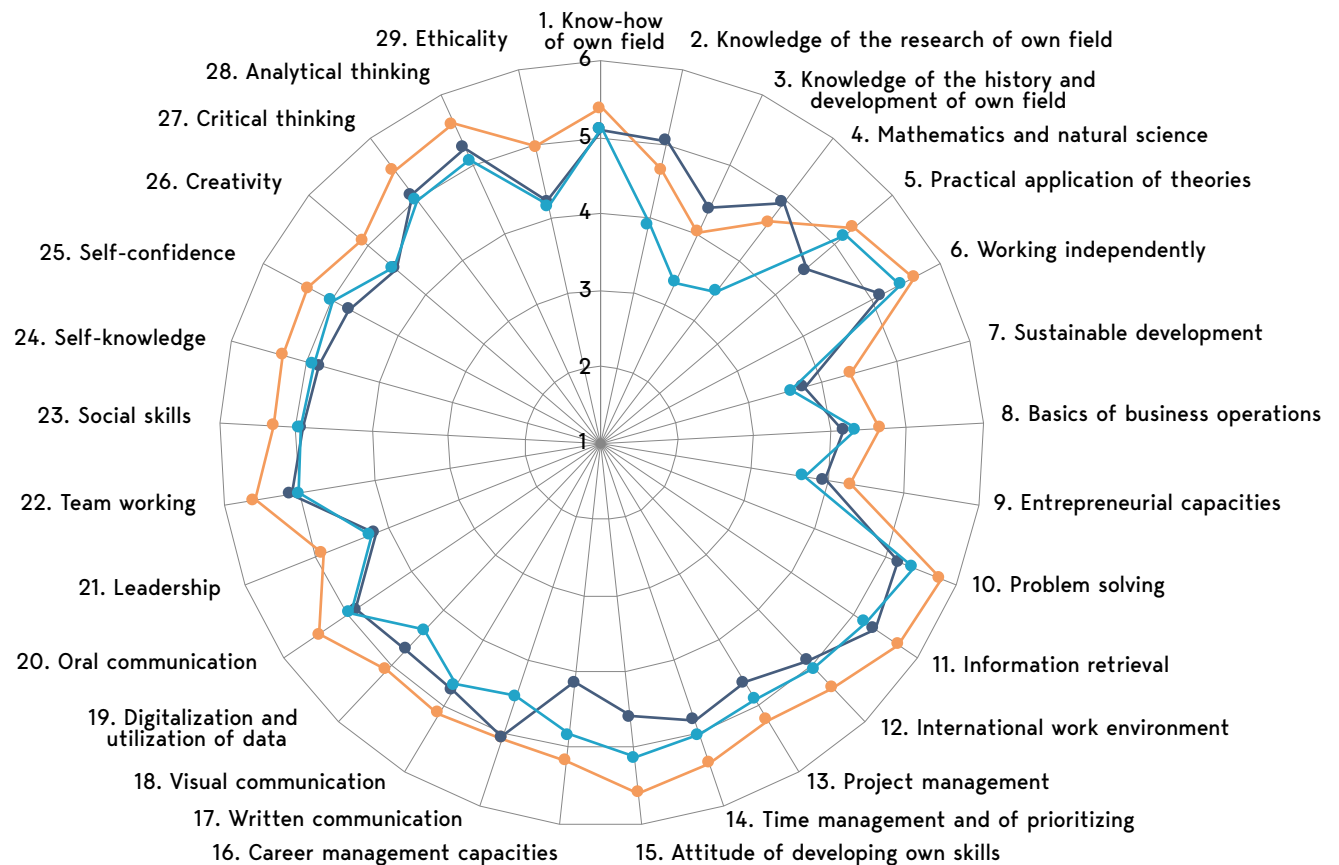
Expertise and skills

Aalto SCI, n= 330

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



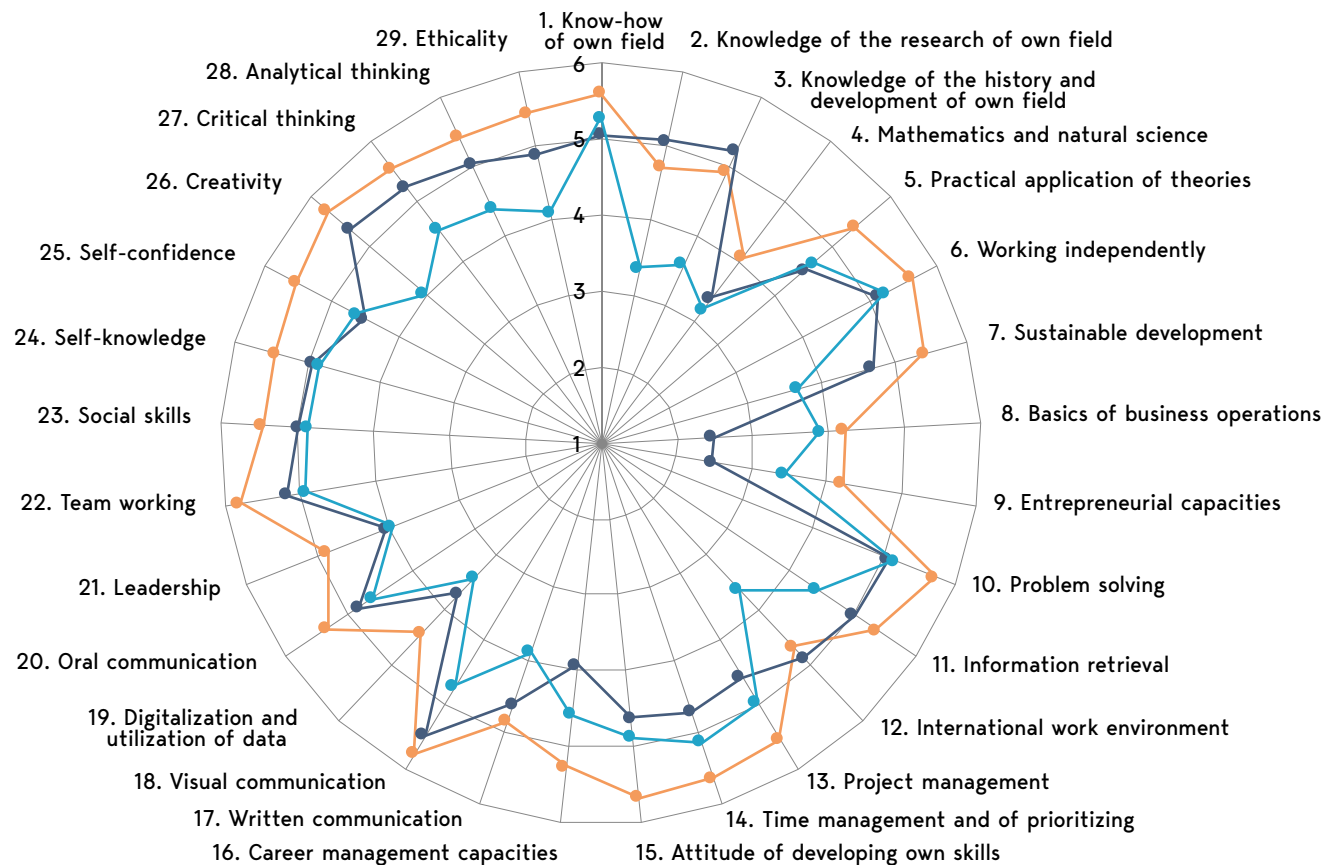
Expertise and skills

Aalto ARTS, n= 63

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SCALE
 1 = Not at all (important)
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 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



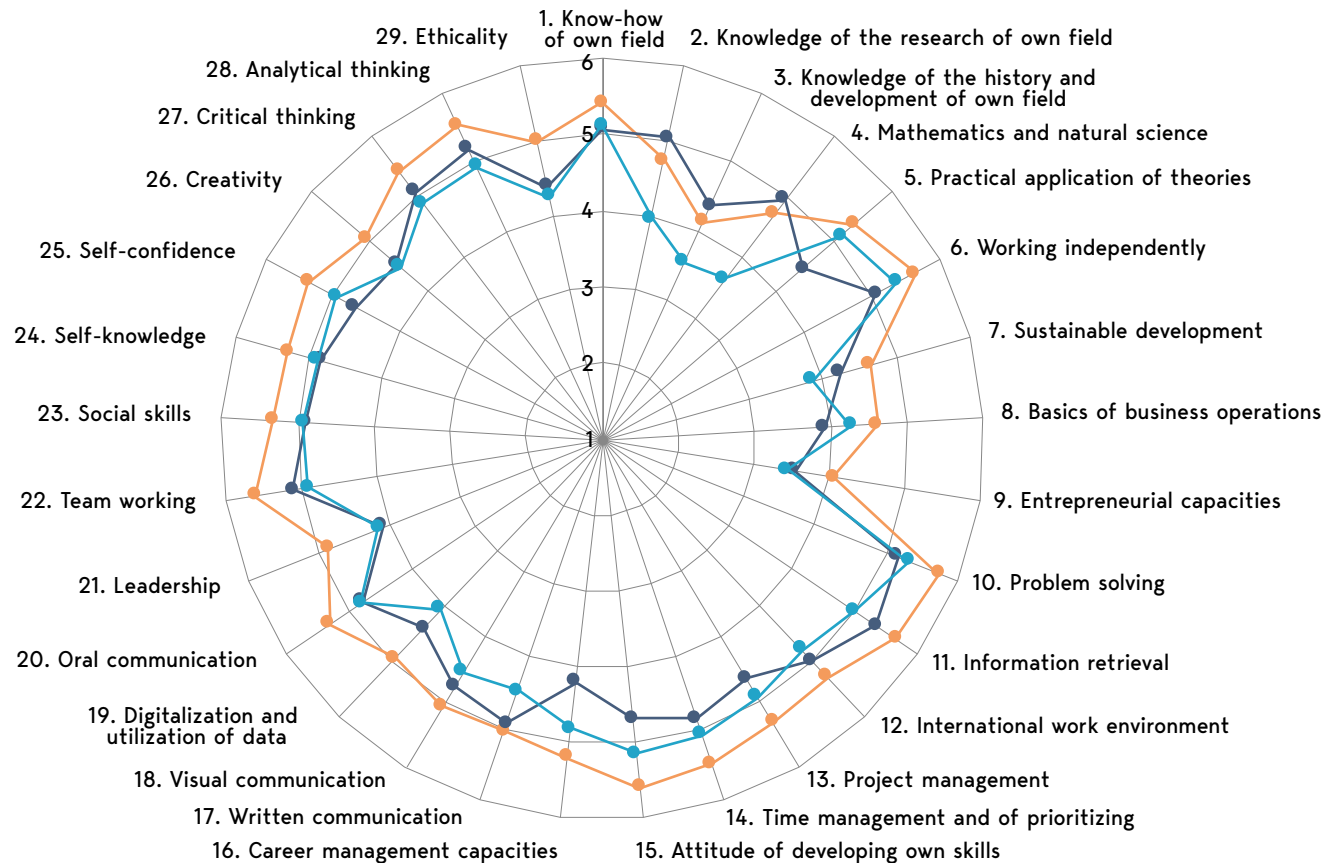
Expertise and skills

Aalto ALL, n= 907

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



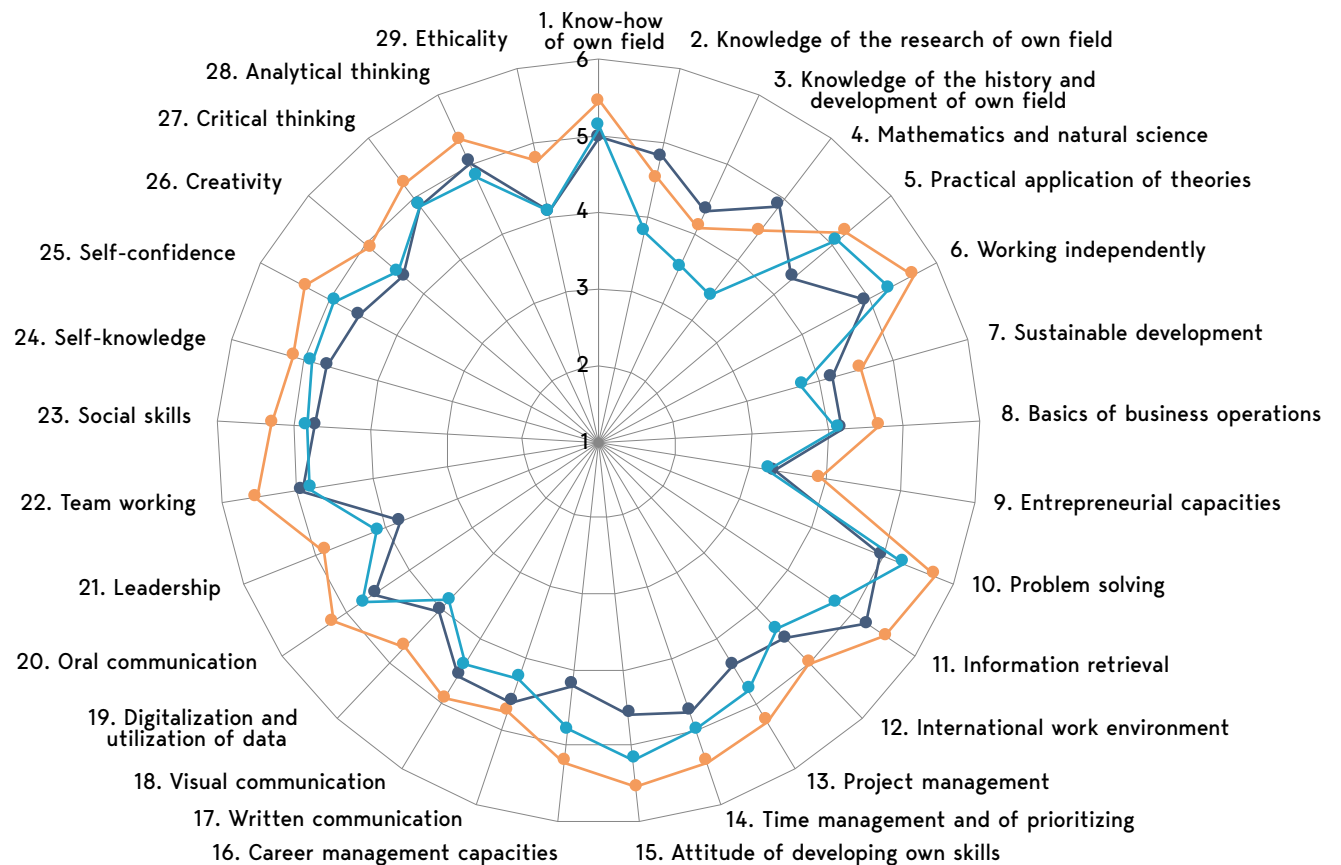
Expertise and skills

TAU, n= 615

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



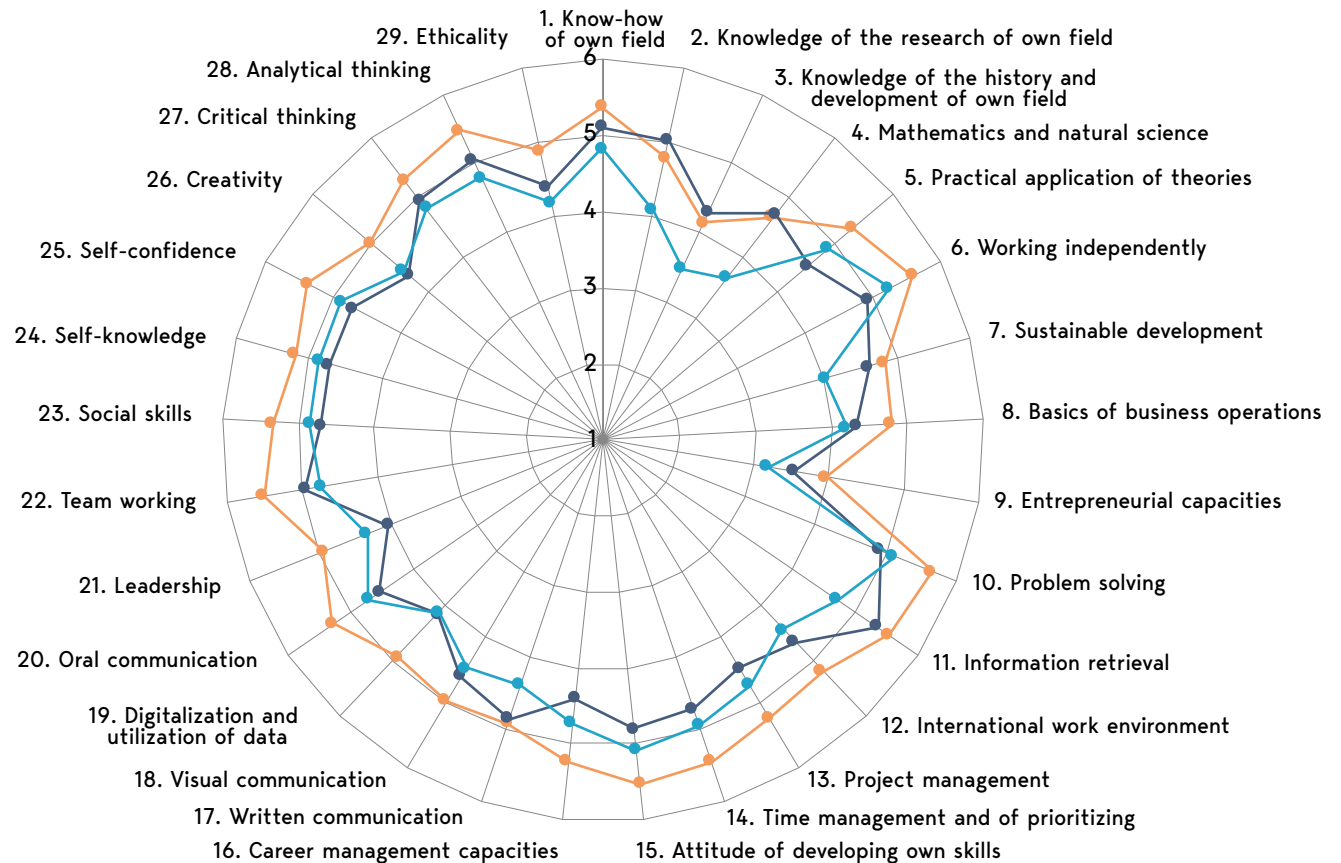
Expertise and skills

LUT, n= 474

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



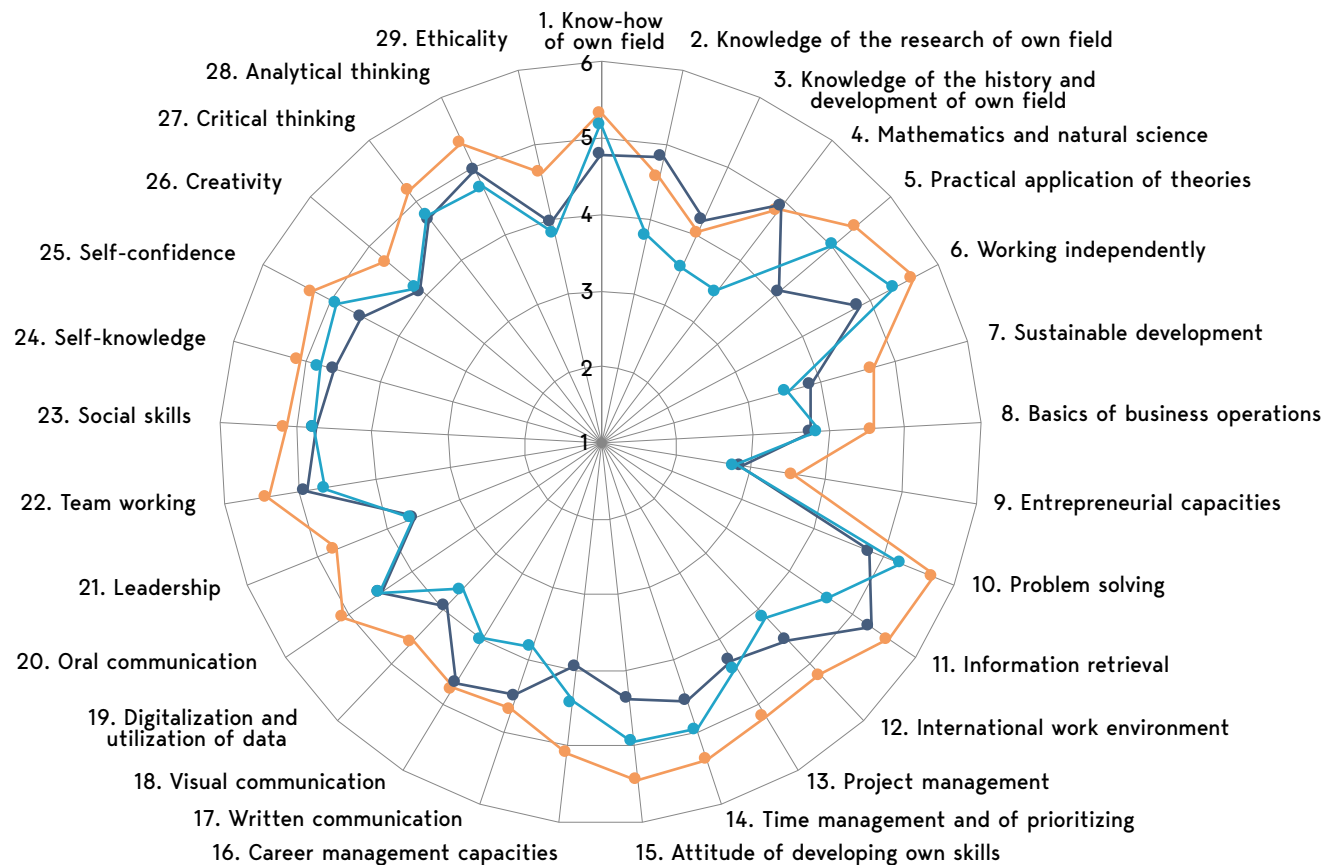
Expertise and skills

UO, n= 79

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



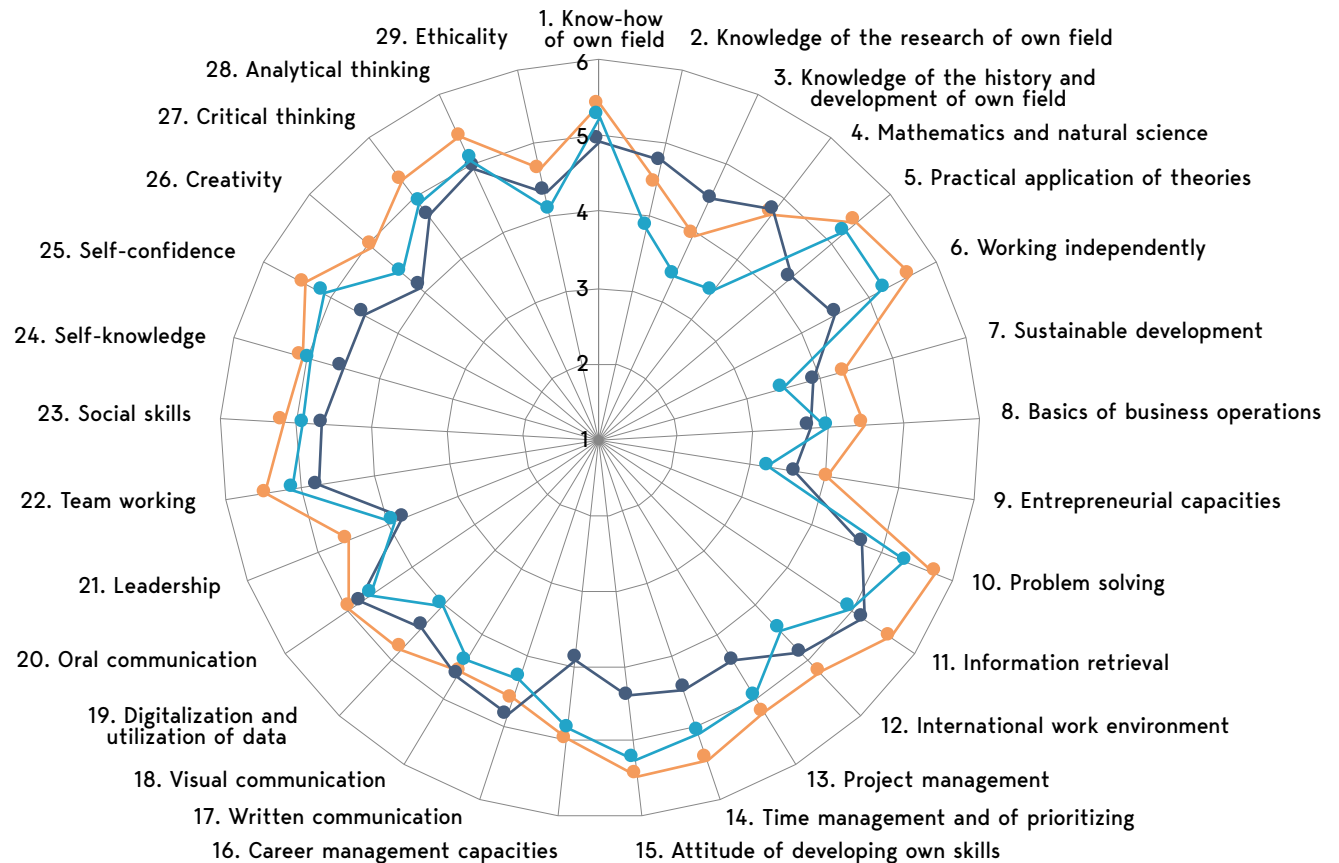
Expertise and skills

UTU, n= 52

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



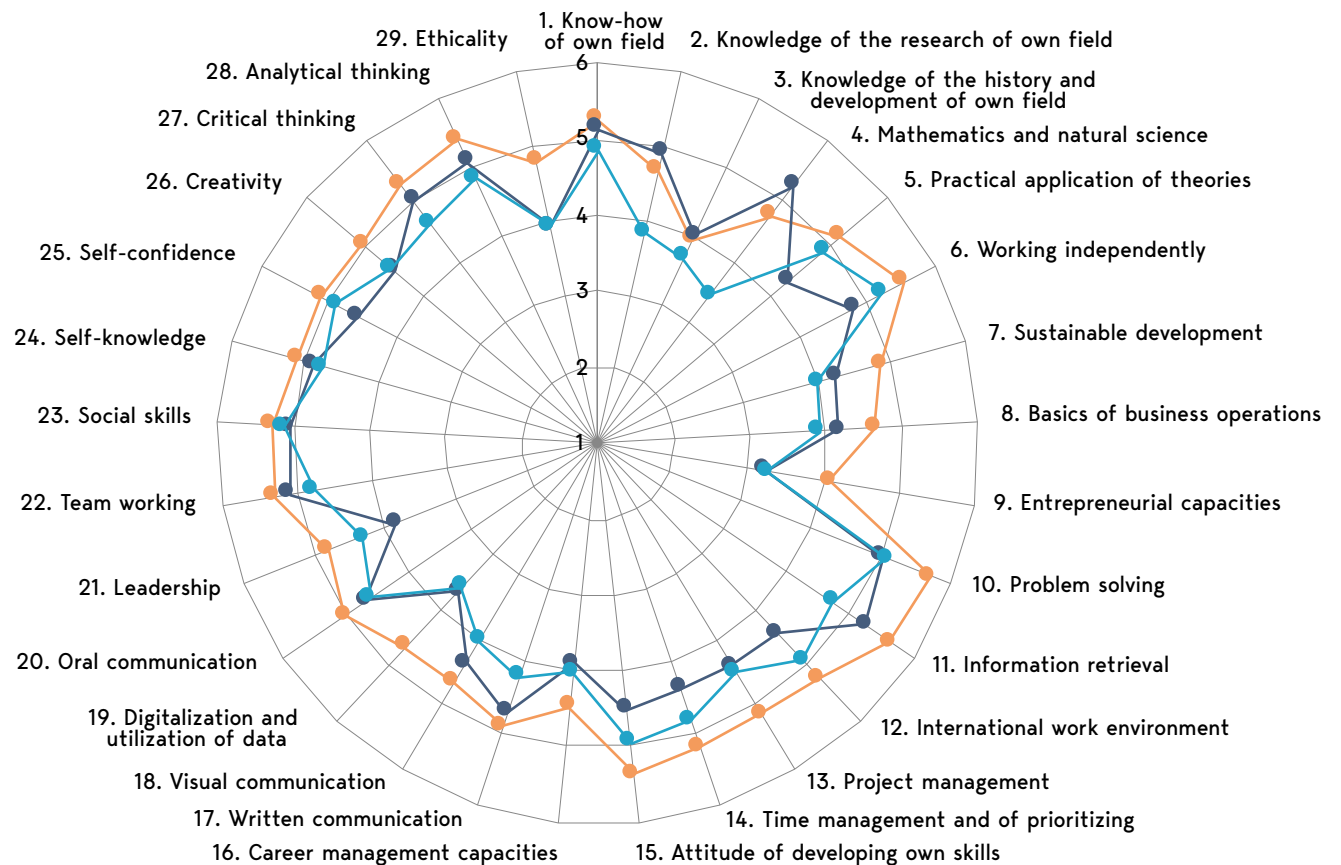
Expertise and skills

ÅAU, n= 50

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



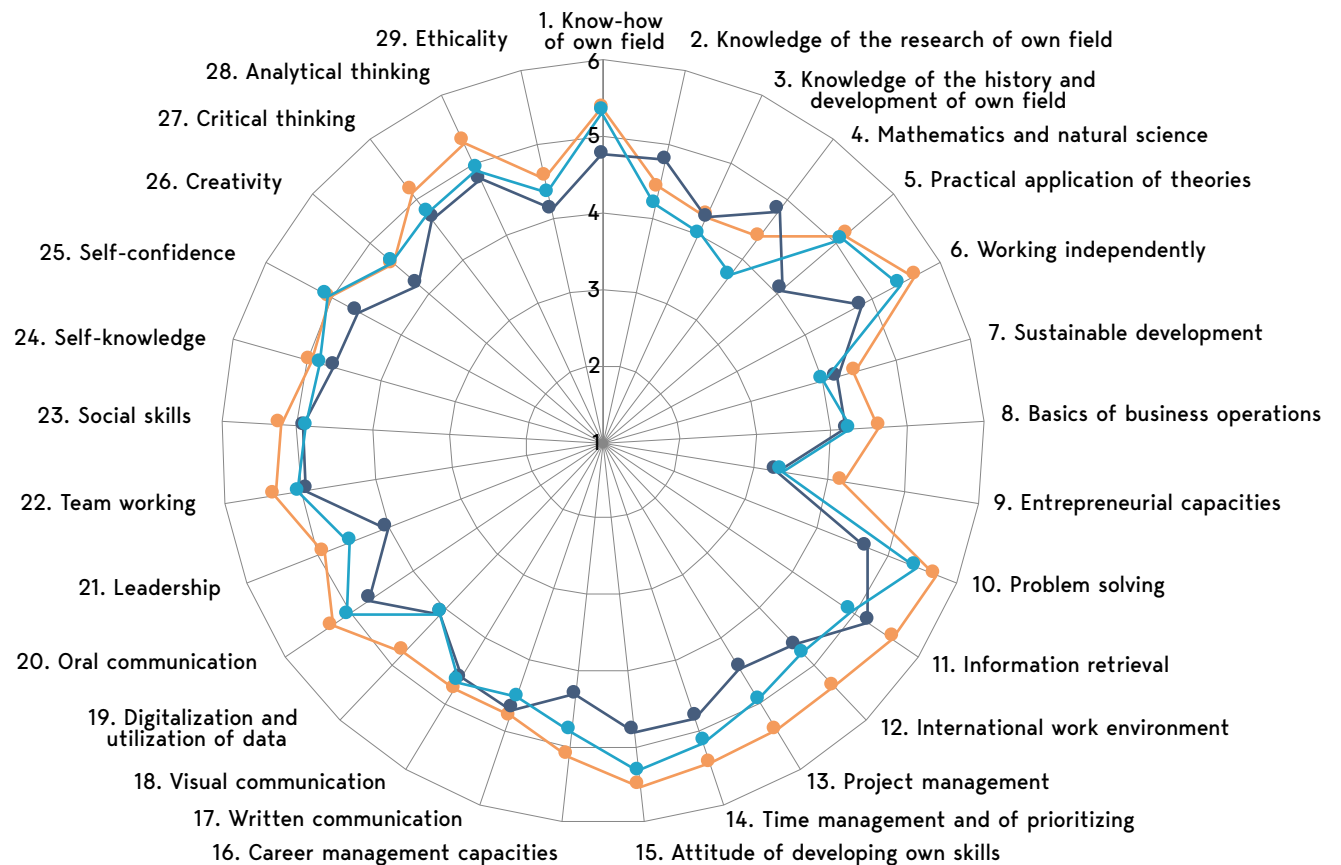
Expertise and skills

UV, n= 24

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SCALE
 1 = Not at all (important)
 2 = Very little
 3 = Little
 4 = Somewhat
 5 = Much
 6 = Very much
 (7 = Cannot answer)

—○— IMPORTANCE
 —●— IN STUDIES
 —●— IN WORK



4. SUPPORT AND COUNSELING

Level of support and counseling

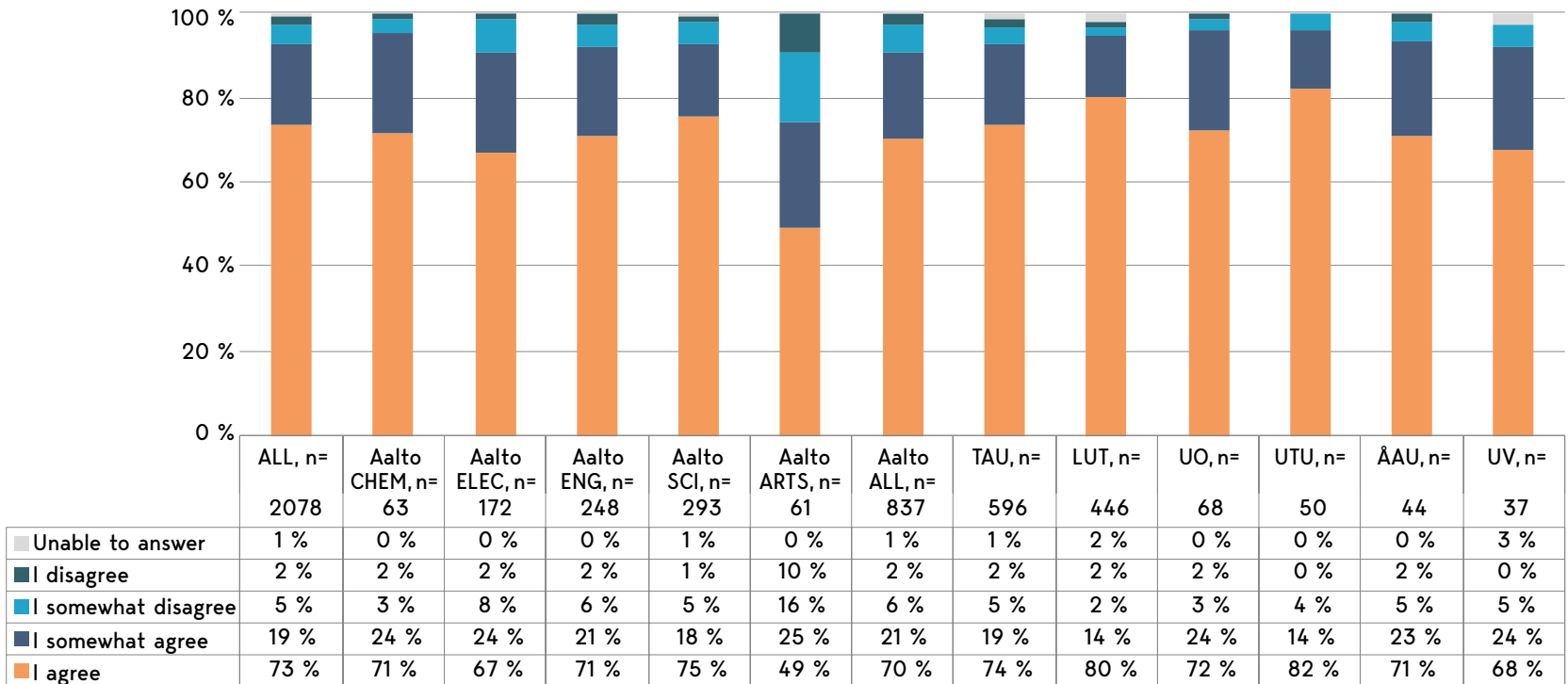
Finding information

Information on job market and career planning

Level of support and counseling

I have felt comfortable at my university.

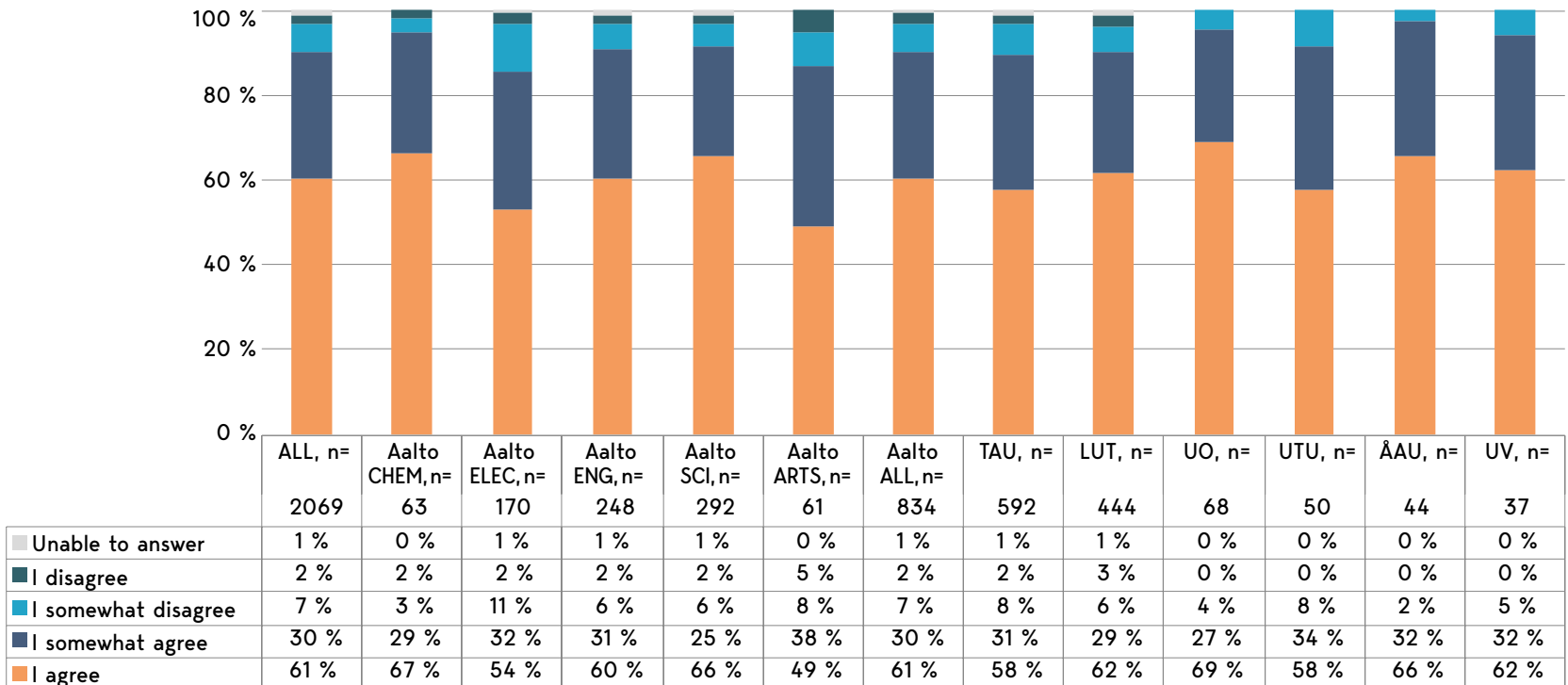
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Level of support and counseling

I am satisfied with my studies.

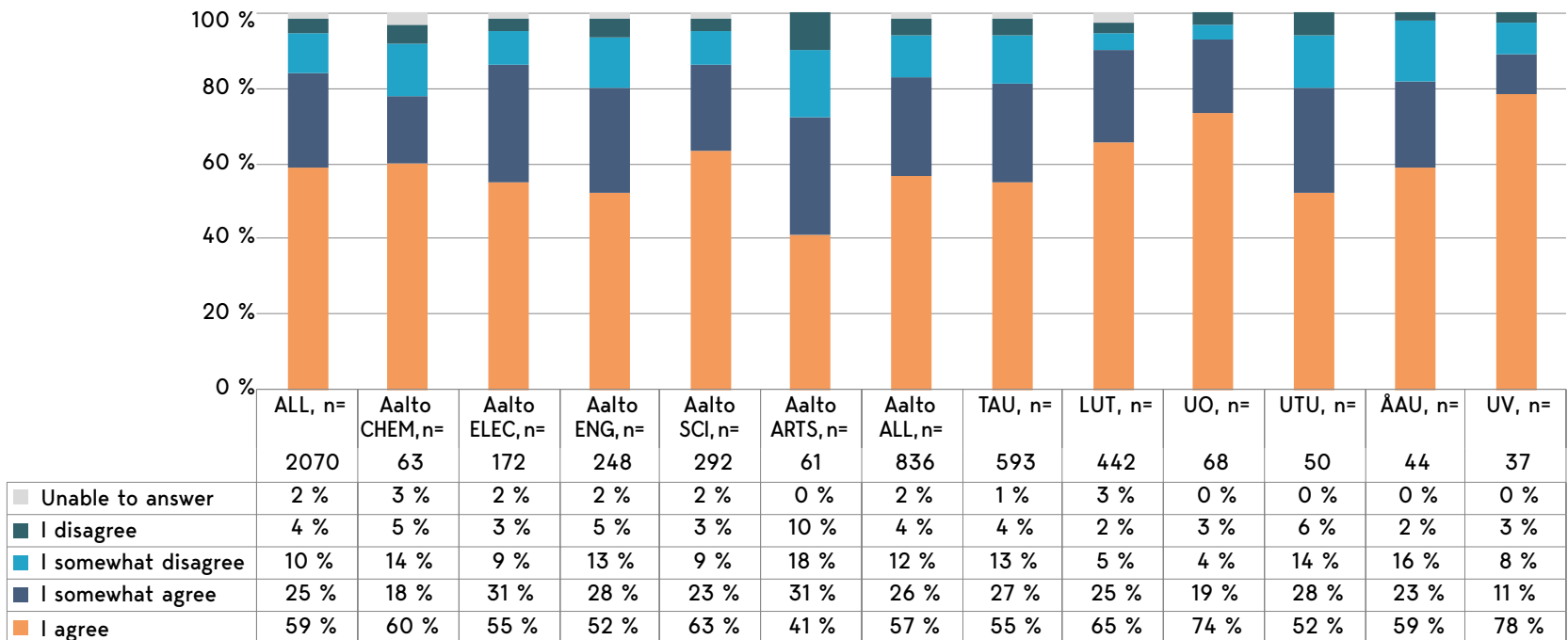
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Level of support and counseling

There has been sufficient guidance available for the preparation of my Master's thesis.

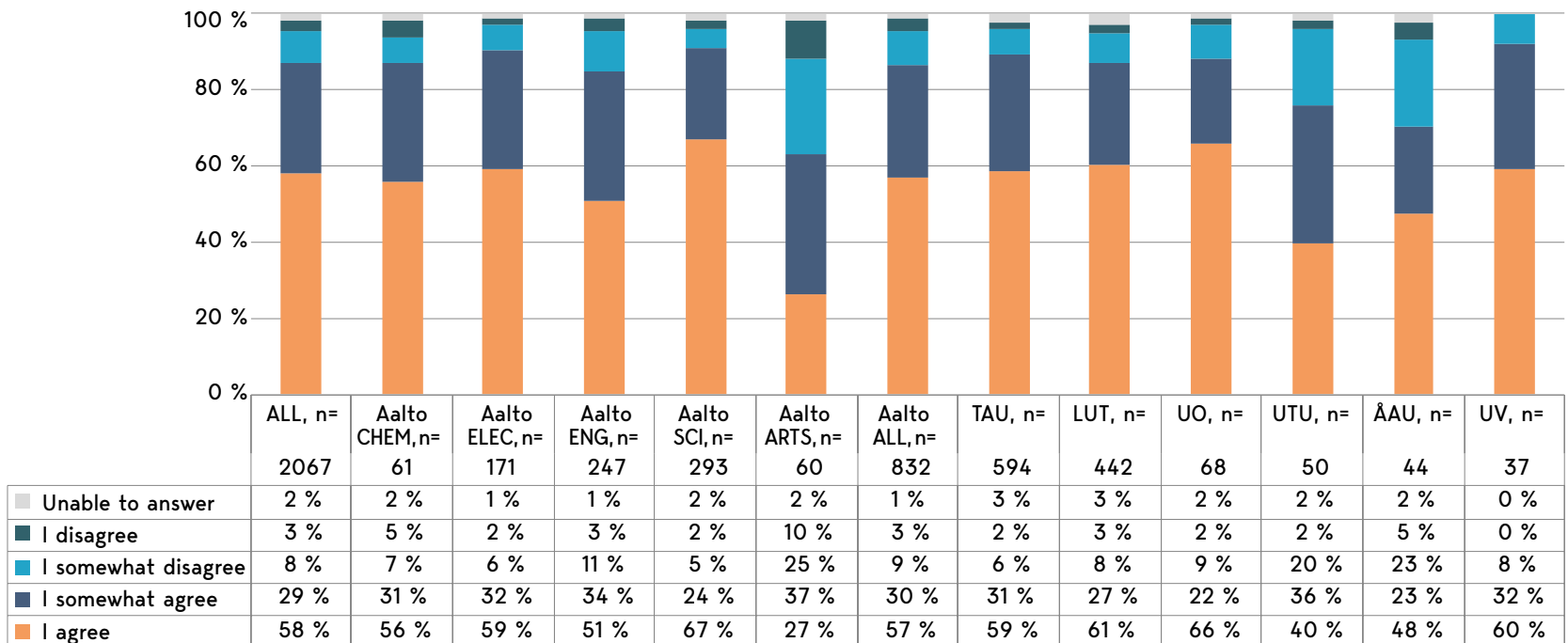
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Level of support and counseling

There has been sufficient guidance available for the organisation of my studies.

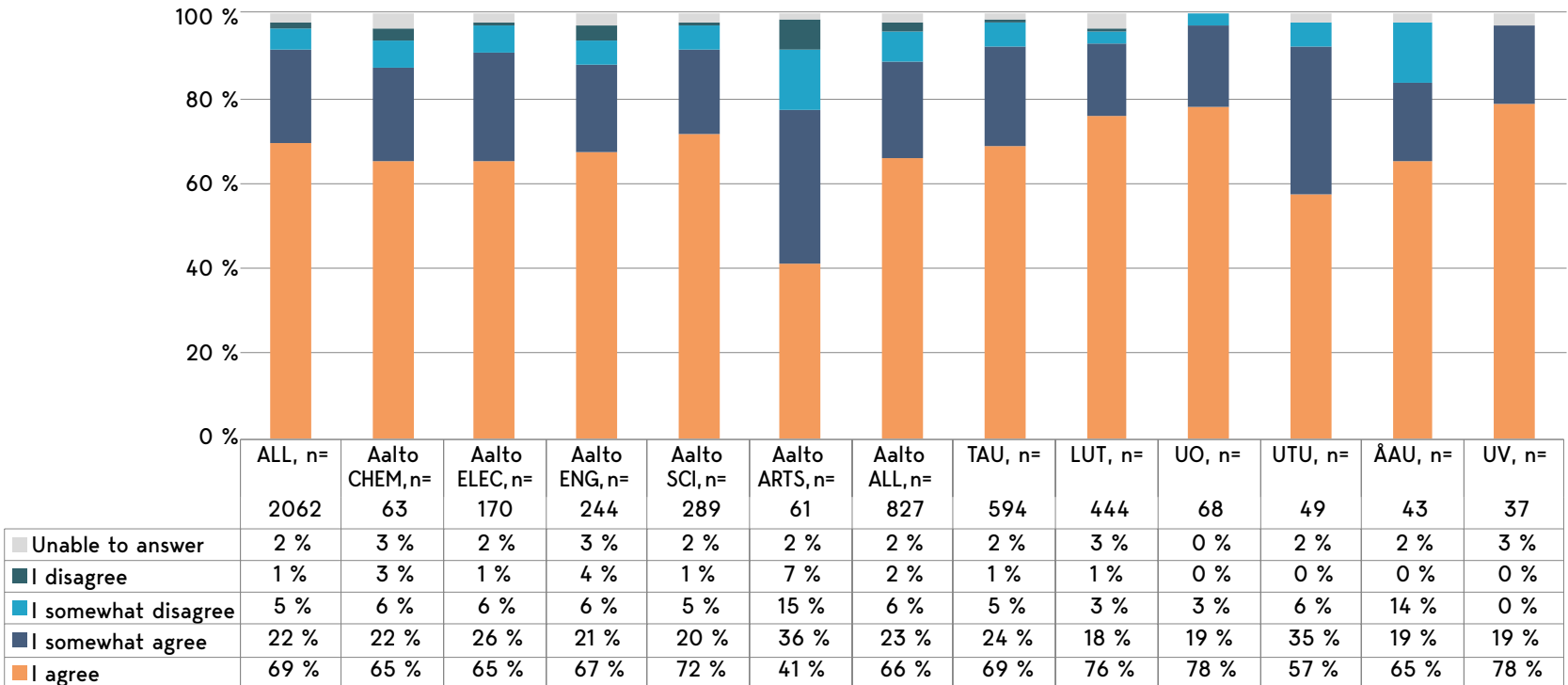
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Level of support and counseling

When needed, I have found a person whom to ask for help.

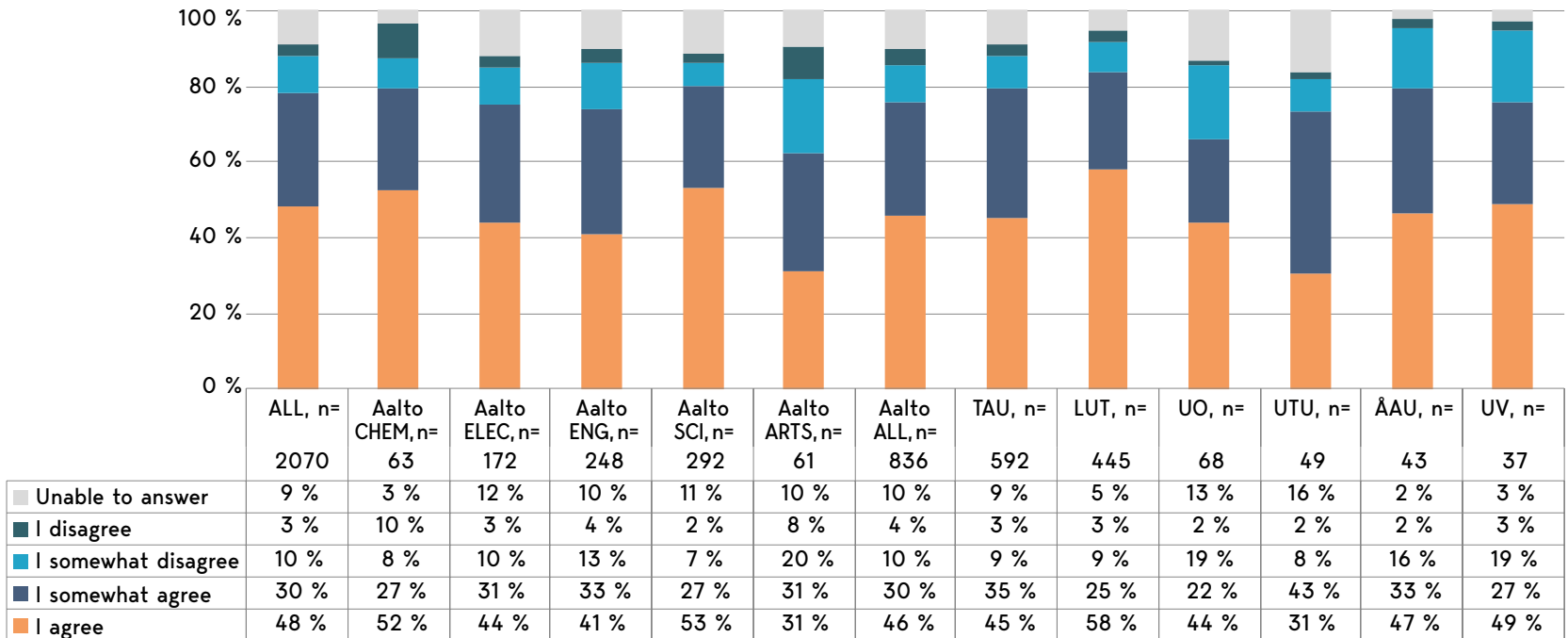
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Level of support and counseling

I have been satisfied with the opportunities I had to influence and participate in my study programme (e.g. planning, feedback).

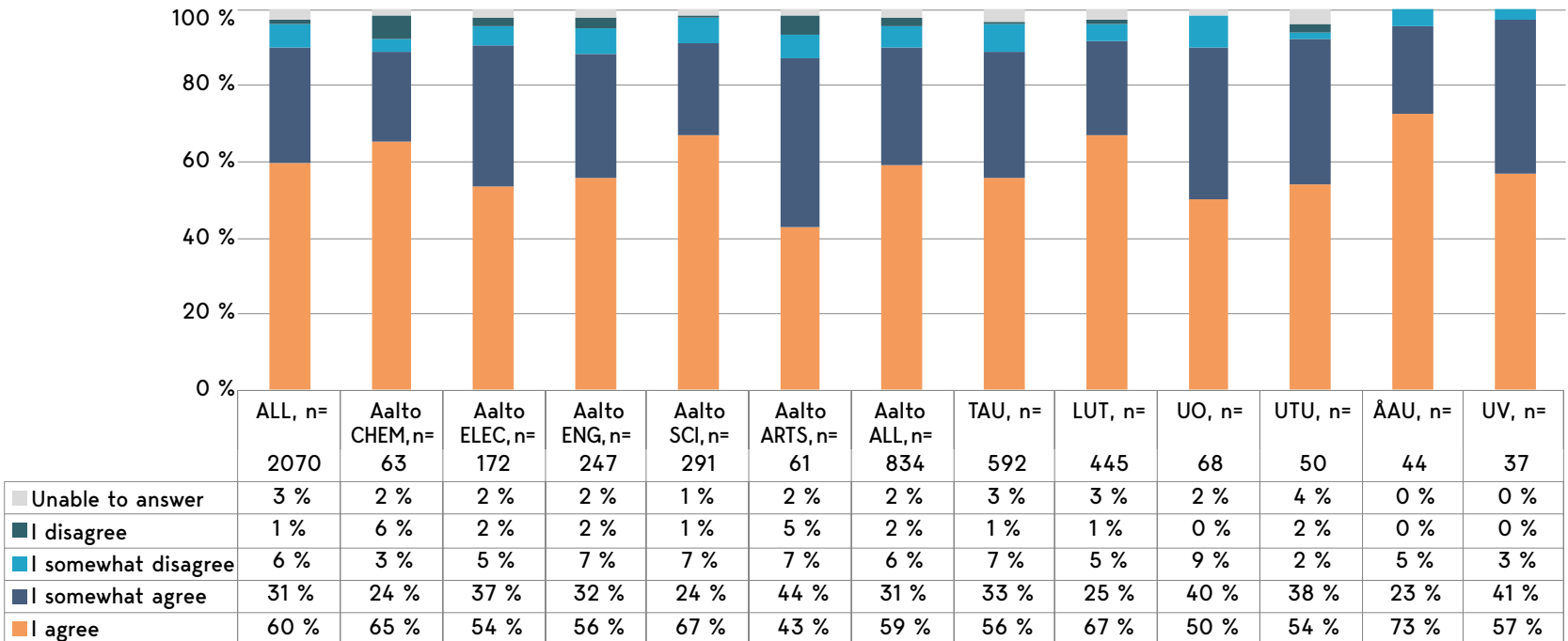
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Level of support and counseling

I have been satisfied with the communication I have had with the teaching staff.

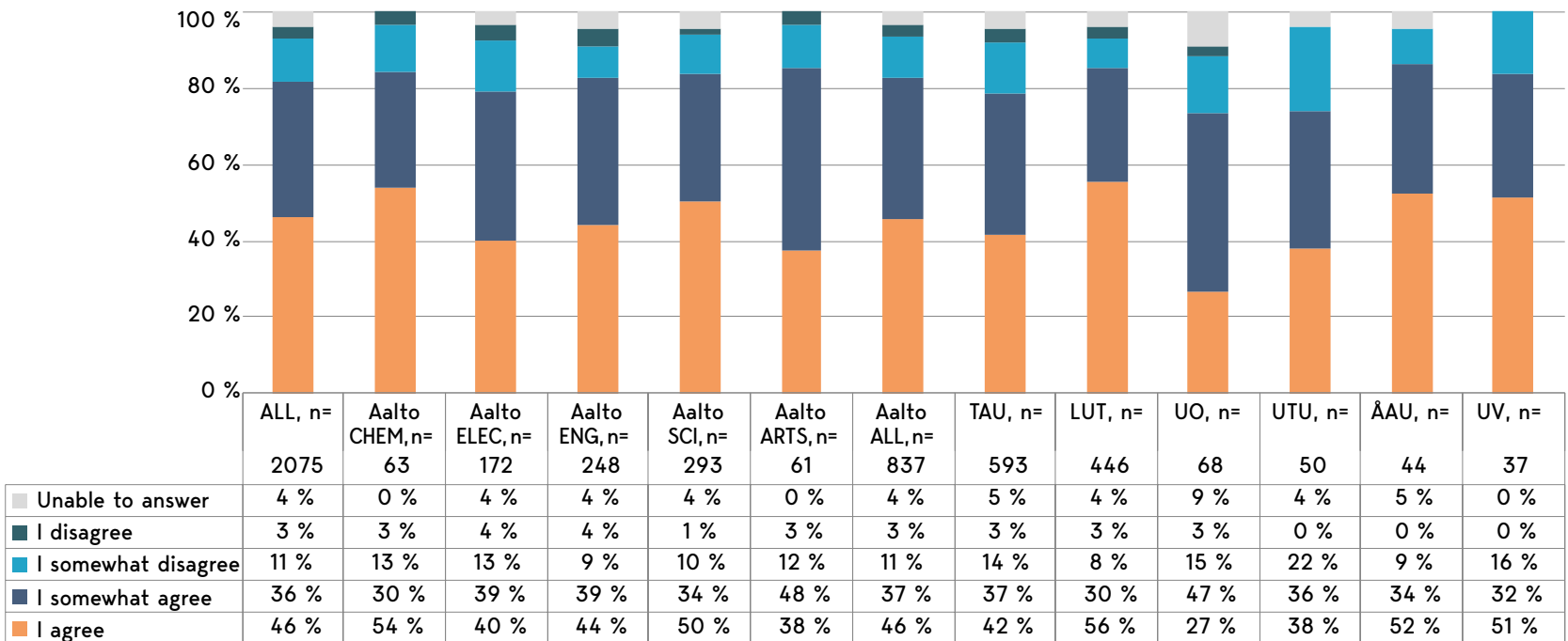
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Level of support and counseling

The feedback I received from the teaching staff has helped me with my studies.

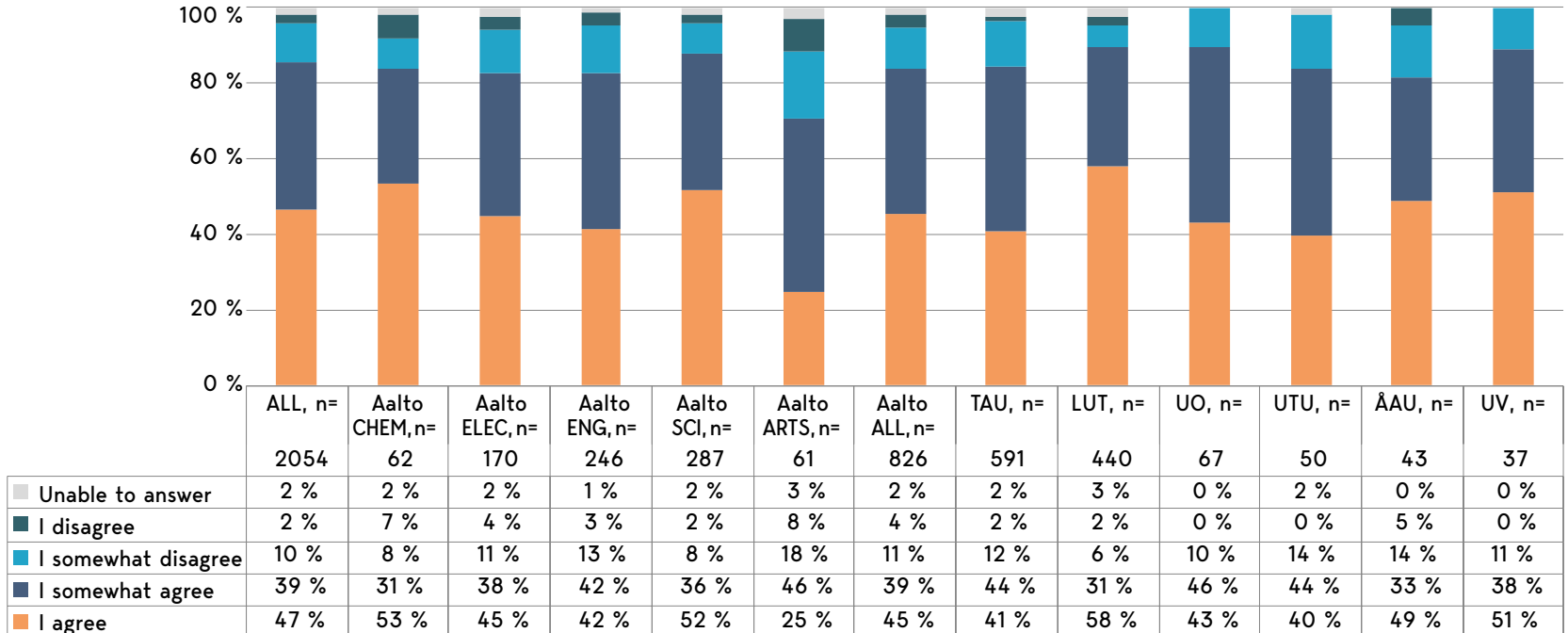
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Finding information and support

It has been easy for me to find information and support regarding different aspects of my studies.

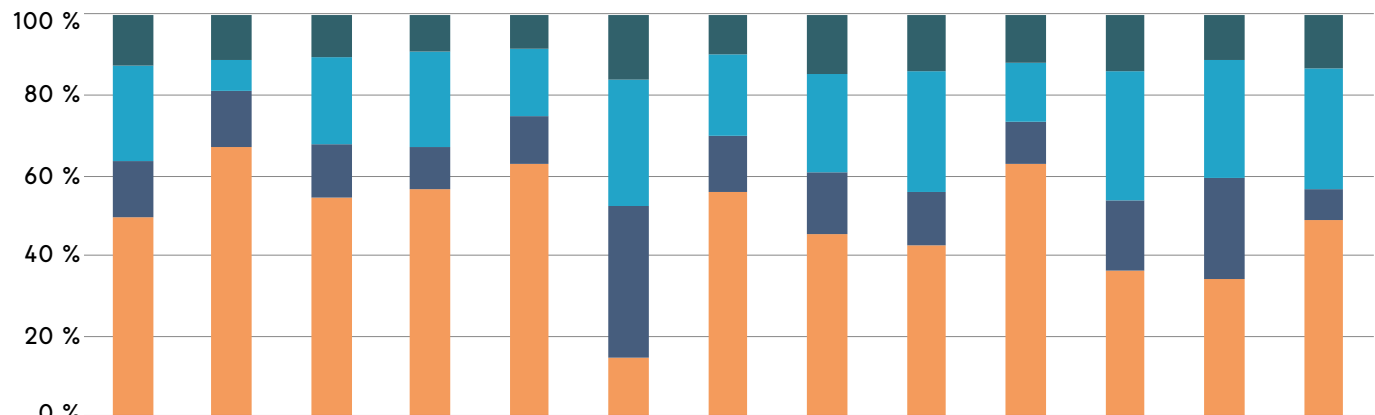
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Information on job market and career planning

During your studies, did you receive enough support for career planning and information on the job market in your own field?

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	ALL, n=2078	Aalto CHEM, n=64	Aalto ELEC, n=172	Aalto ENG, n=248	Aalto SCI, n=294	Aalto ARTS, n=61	Aalto ALL, n=839	TAU, n=592	LUT, n=448	UO, n=68	UTU, n=50	ÅAU, n=44	UV, n=37
Unable to answer	12 %	11 %	11 %	9 %	8 %	16 %	10 %	15 %	14 %	12 %	14 %	11 %	14 %
I did not need such information	24 %	8 %	22 %	24 %	17 %	31 %	20 %	24 %	30 %	15 %	32 %	30 %	30 %
No, I didn't	14 %	14 %	13 %	11 %	12 %	38 %	14 %	15 %	14 %	10 %	18 %	25 %	8 %
Yes, I did	49 %	67 %	55 %	57 %	63 %	15 %	56 %	46 %	42 %	63 %	36 %	34 %	49 %

5. MASTER'S THESIS

Frame of collaboration

Financing

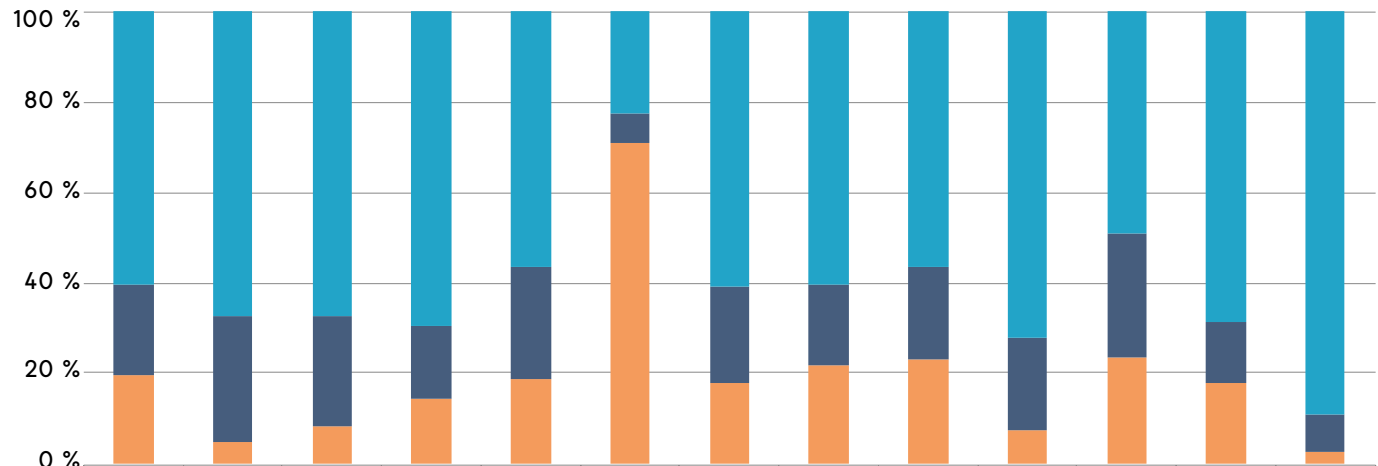
Duration

Support and supervision

Frame of collaboration

Did your master's thesis involve collaboration within or outside of your university?

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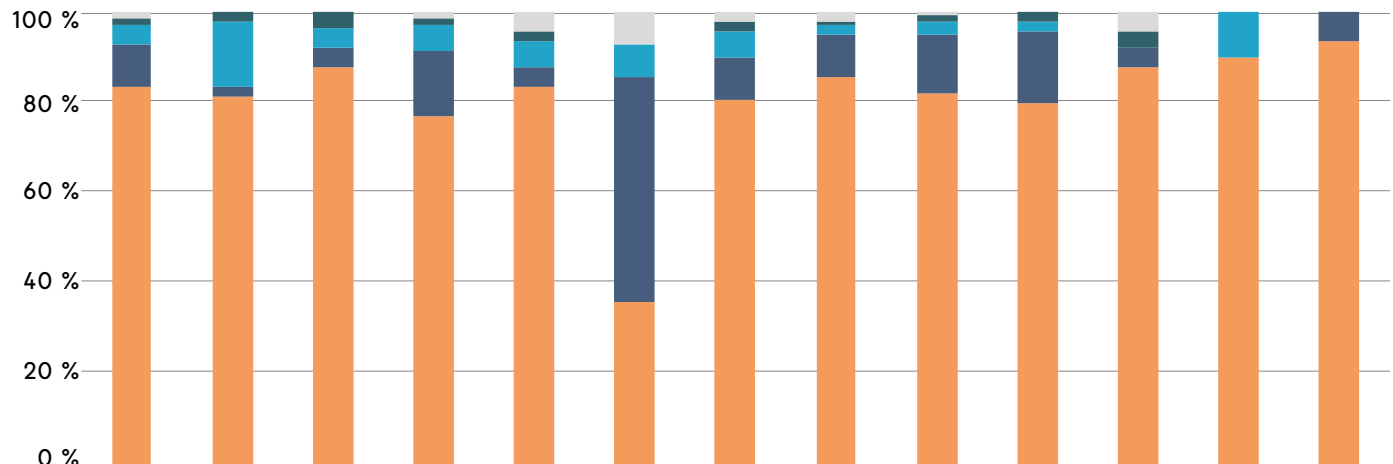


	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
Yes, outside my own university.	61 %	67 %	67 %	69 %	56 %	23 %	61 %	61 %	57 %	72 %	49 %	69 %	89 %
Yes, within my own university.	20 %	28 %	24 %	17 %	25 %	7 %	21 %	18 %	21 %	21 %	28 %	13 %	8 %
No, I did my thesis on my own.	20 %	5 %	8 %	14 %	19 %	71 %	18 %	22 %	23 %	7 %	24 %	18 %	3 %

Frame of collaboration

The non-university partner in my thesis was

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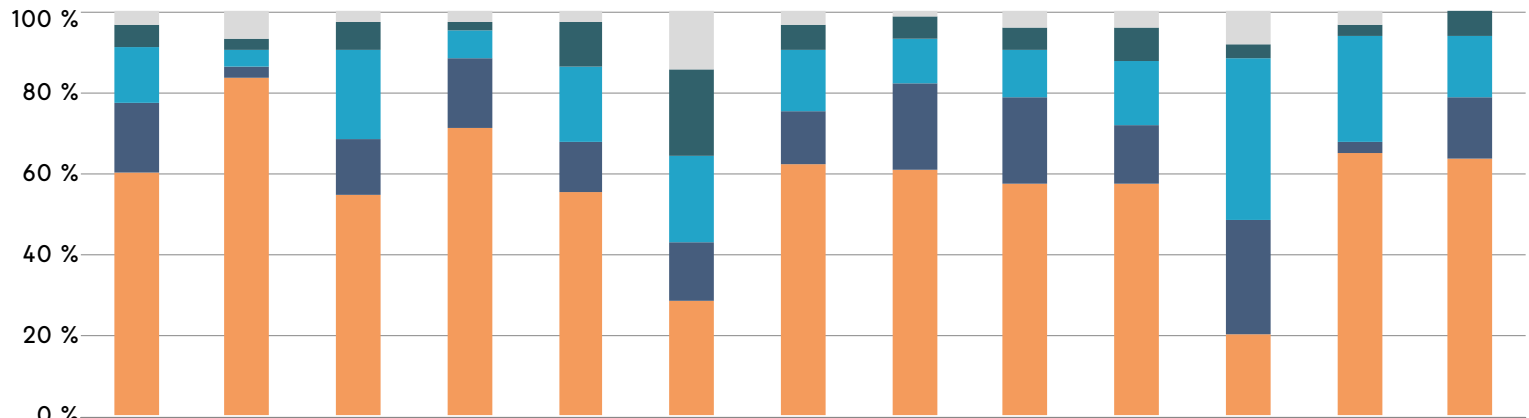
	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	1263	43	115	172	169	14	513	361	252	49	25	30	33
■ something else	2 %	0 %	0 %	1 %	4 %	7 %	2 %	2 %	1 %	0 %	4 %	0 %	0 %
■ a third sector organisation or association	2 %	2 %	4 %	2 %	2 %	0 %	2 %	1 %	1 %	2 %	4 %	0 %	0 %
■ a research institute	4 %	14 %	4 %	5 %	6 %	7 %	6 %	3 %	3 %	2 %	0 %	10 %	0 %
■ a public sector organization	10 %	2 %	4 %	15 %	4 %	50 %	9 %	9 %	13 %	16 %	4 %	0 %	6 %
■ a private sector firm	83 %	81 %	88 %	77 %	83 %	36 %	81 %	86 %	83 %	80 %	88 %	90 %	94 %

If collaboration with an organisation outside own university.

Frame of collaboration

The size of the partnering organization (amount of personnel)

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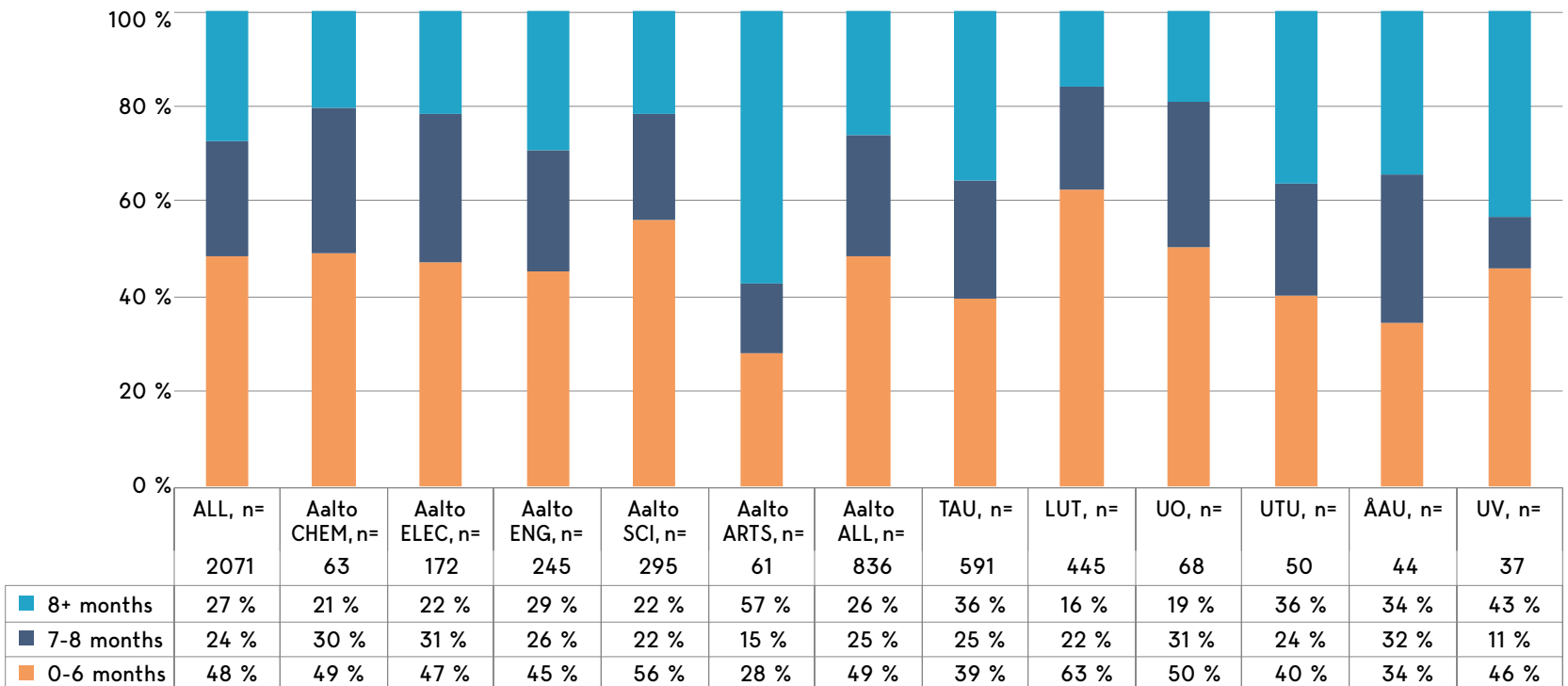
	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	1268	43	116	171	170	14	514	361	255	49	25	31	33
Cannot answer	3 %	7 %	3 %	3 %	3 %	14 %	4 %	2 %	4 %	4 %	8 %	3 %	0 %
Less than 10	6 %	2 %	7 %	2 %	11 %	21 %	6 %	5 %	6 %	8 %	4 %	3 %	6 %
10-49	14 %	5 %	22 %	7 %	19 %	21 %	15 %	11 %	11 %	16 %	40 %	26 %	15 %
50-250	17 %	2 %	14 %	18 %	12 %	14 %	14 %	21 %	21 %	14 %	28 %	3 %	15 %
More than 250	60 %	84 %	54 %	71 %	55 %	29 %	62 %	61 %	58 %	57 %	20 %	65 %	64 %

If collaboration with an organisation outside own university.

Duration

How long did it take to complete your master's thesis?

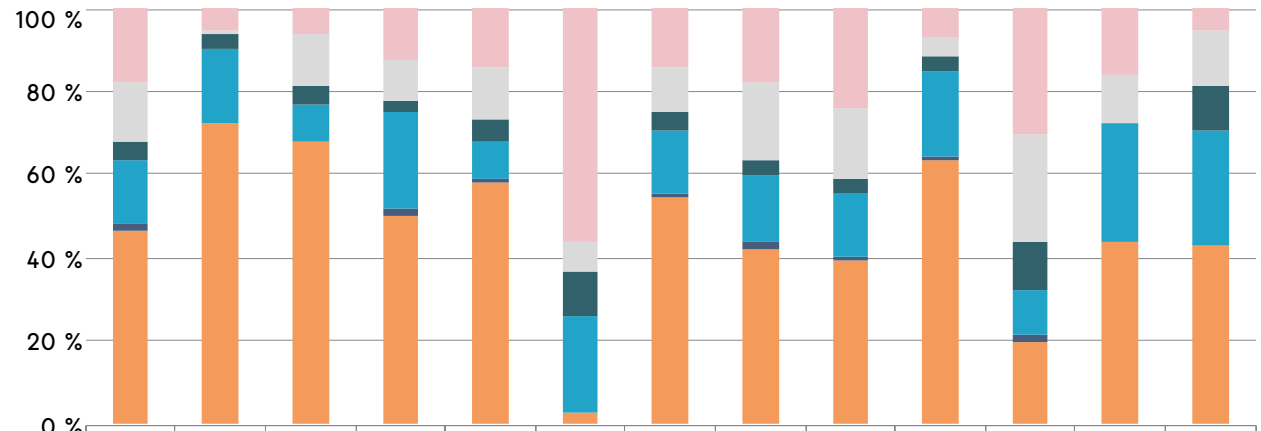
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Financing

Financing of your master's thesis

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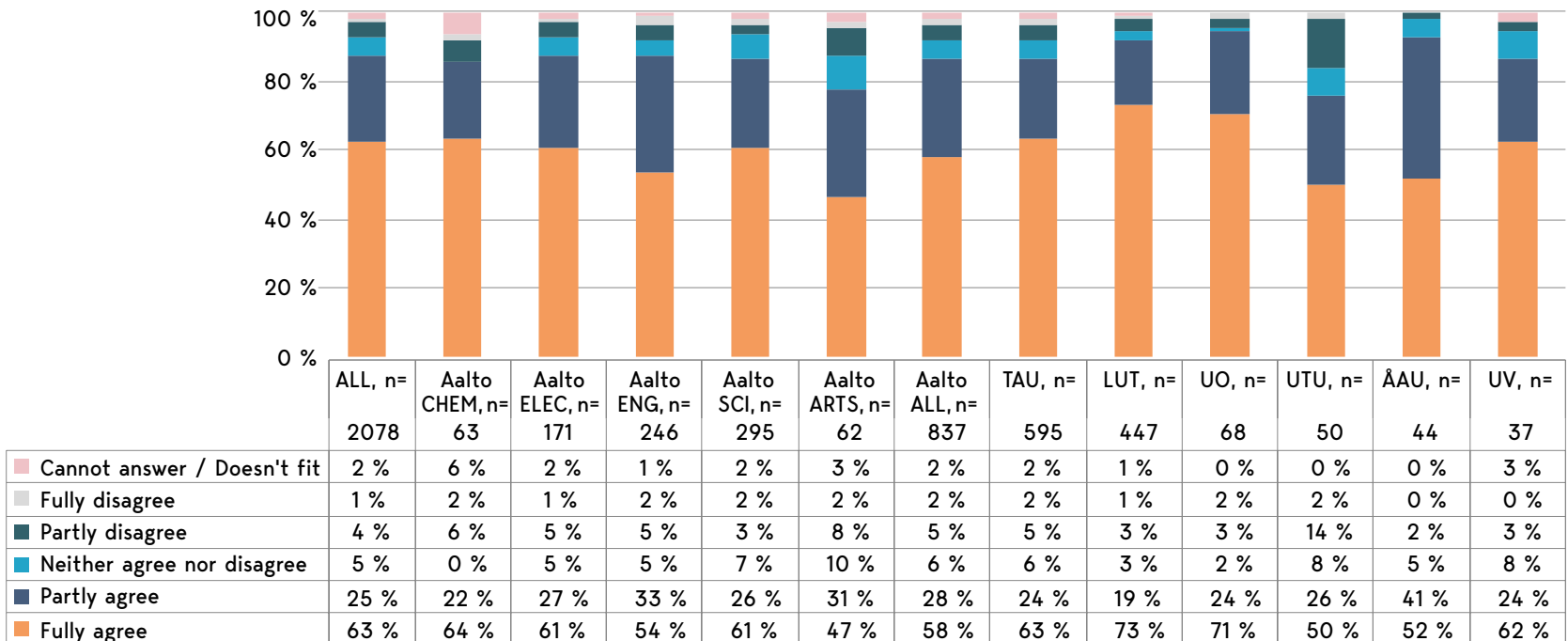


	ALL, n=	Aalto	Aalto	Aalto	Aalto	Aalto	Aalto	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	2061	CHEM, n=	ELEC, n=	ENG, n=	SCI, n=	ARTS, n=	ALL, n=	589	443	68	50	43	37
I received no financing	18 %	5 %	6 %	12 %	14 %	57 %	14 %	18 %	24 %	7 %	30 %	16 %	5 %
I did not get funding, but I was allowed to use my working time to do my thesis.	14 %	2 %	12 %	10 %	13 %	7 %	11 %	18 %	18 %	4 %	26 %	12 %	14 %
Some other way	4 %	3 %	5 %	3 %	5 %	11 %	5 %	4 %	3 %	3 %	12 %	0 %	11 %
Scholarship	16 %	18 %	9 %	23 %	9 %	23 %	15 %	16 %	15 %	21 %	10 %	28 %	27 %
Hourly salary	1 %	0 %	0 %	2 %	1 %	0 %	1 %	2 %	1 %	2 %	2 %	0 %	0 %
Monthly salary	47 %	72 %	68 %	50 %	58 %	3 %	55 %	42 %	40 %	63 %	20 %	44 %	43 %

Support and supervision

The guidance I received from the university was well organised and informative.

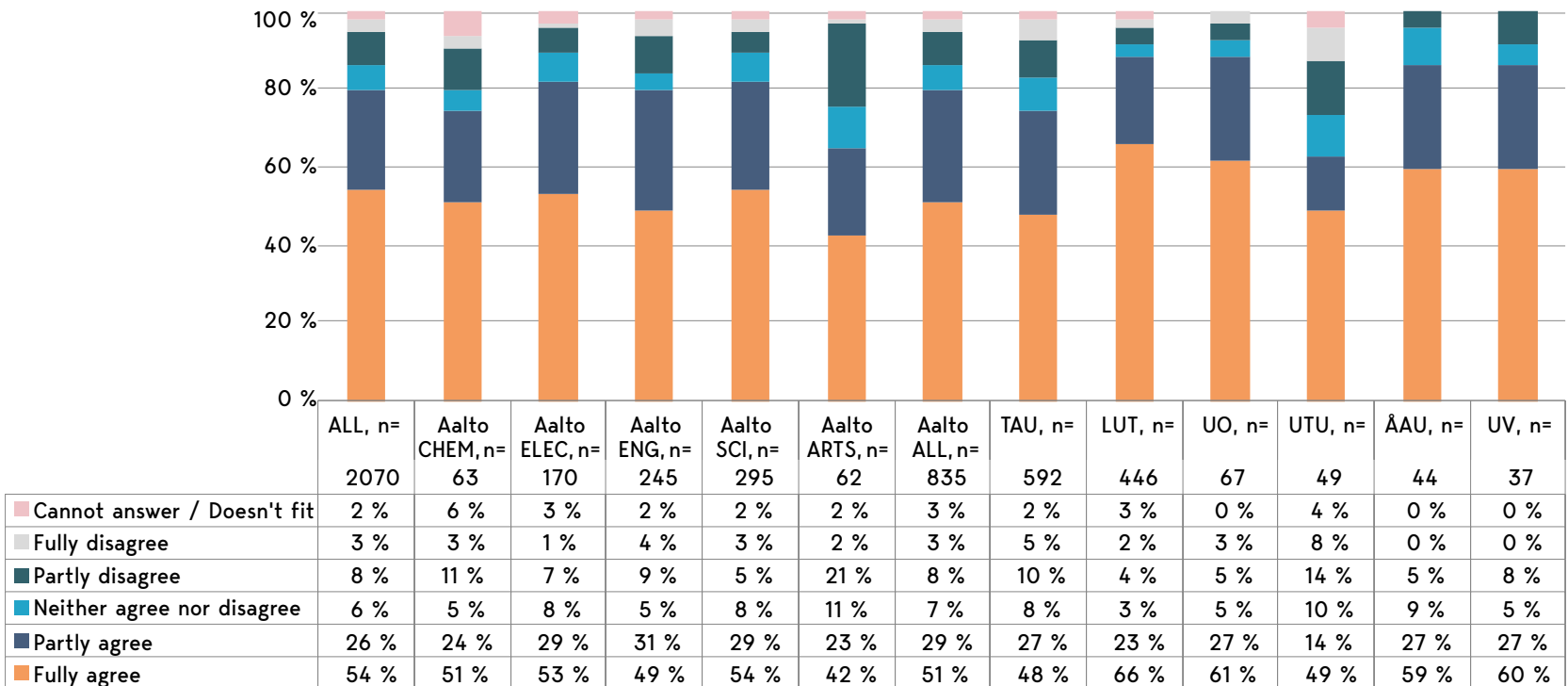
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Support and supervision

I received sufficiently guidance from the university.

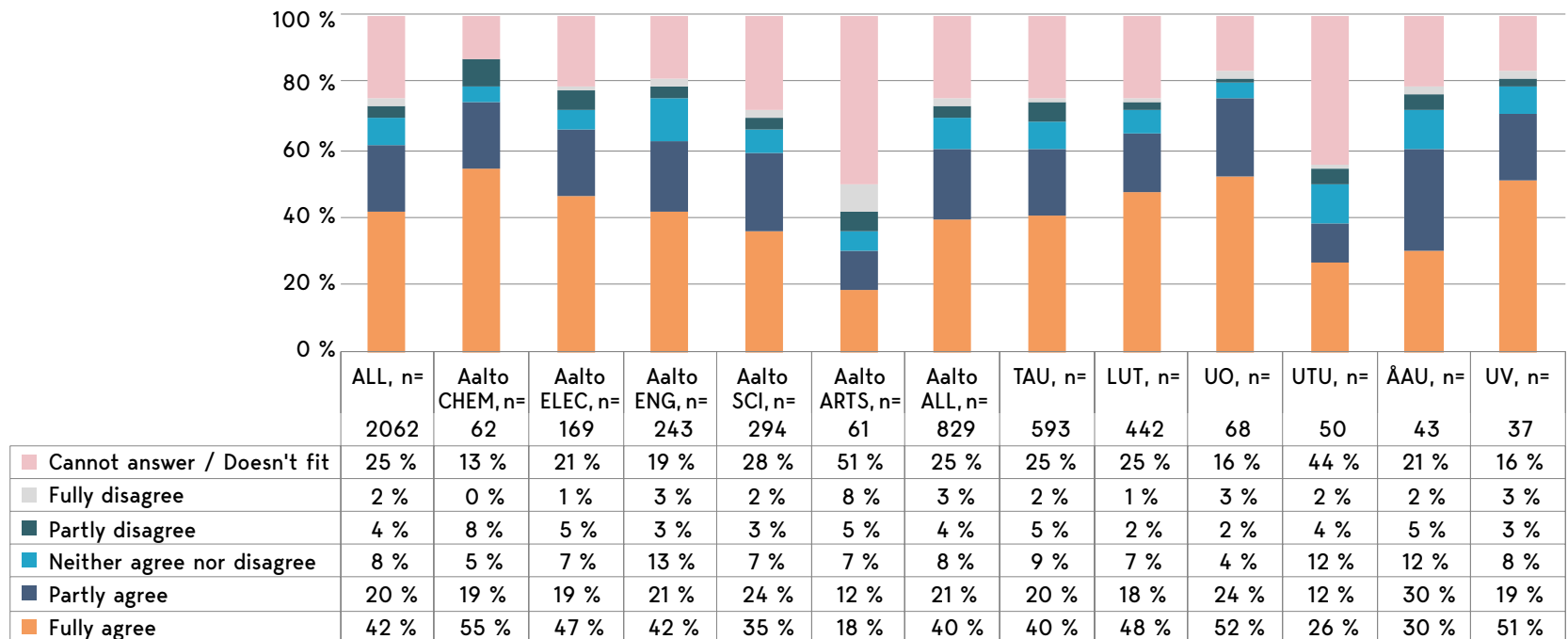
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Support and supervision

Cooperation between the university and my client carried out well in guiding the thesis work.

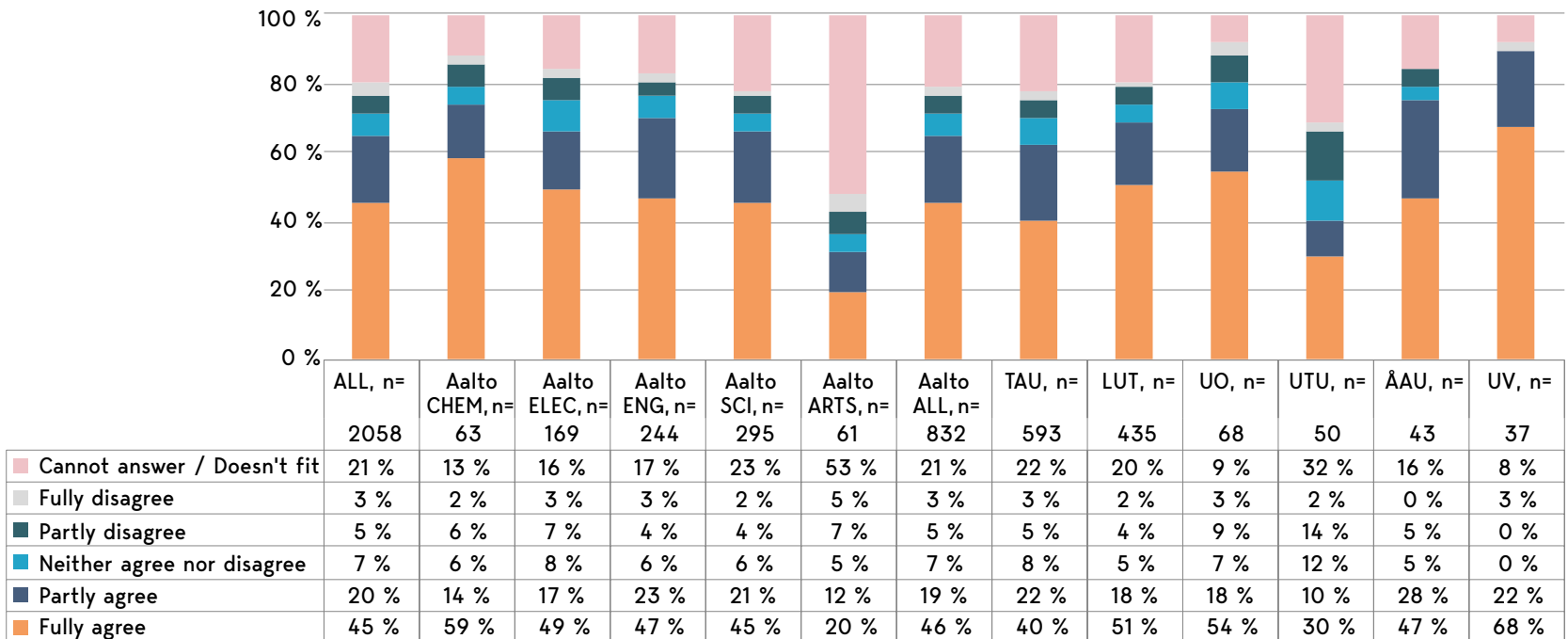
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Support and supervision

I received sufficiently guidance from the partnering organization for my thesis work.

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6. WORKING DURING THE STUDIES

Work experience gained during the studies

Working and progress of the studies

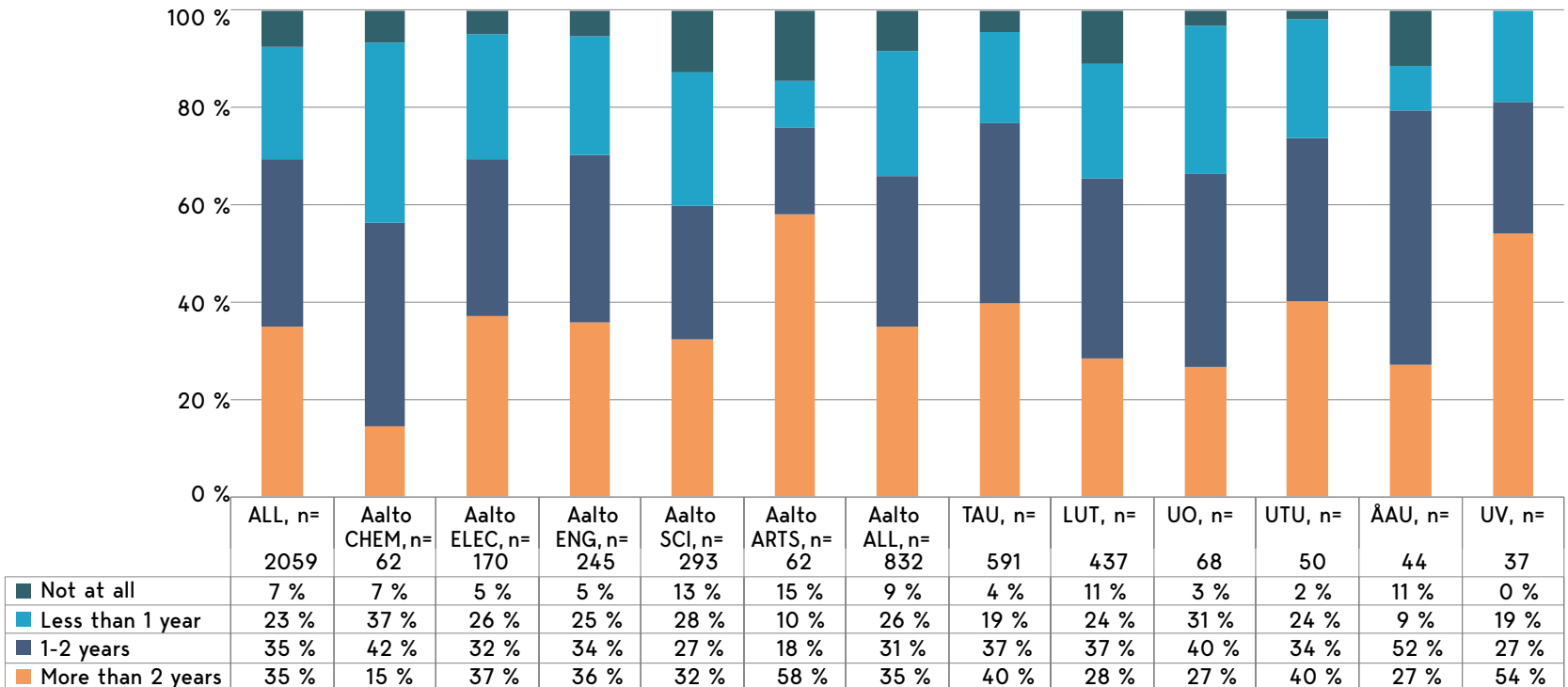
The importance of work experience

Voluntary engagement and activity

Work experience gained during the studies

All work experience, months

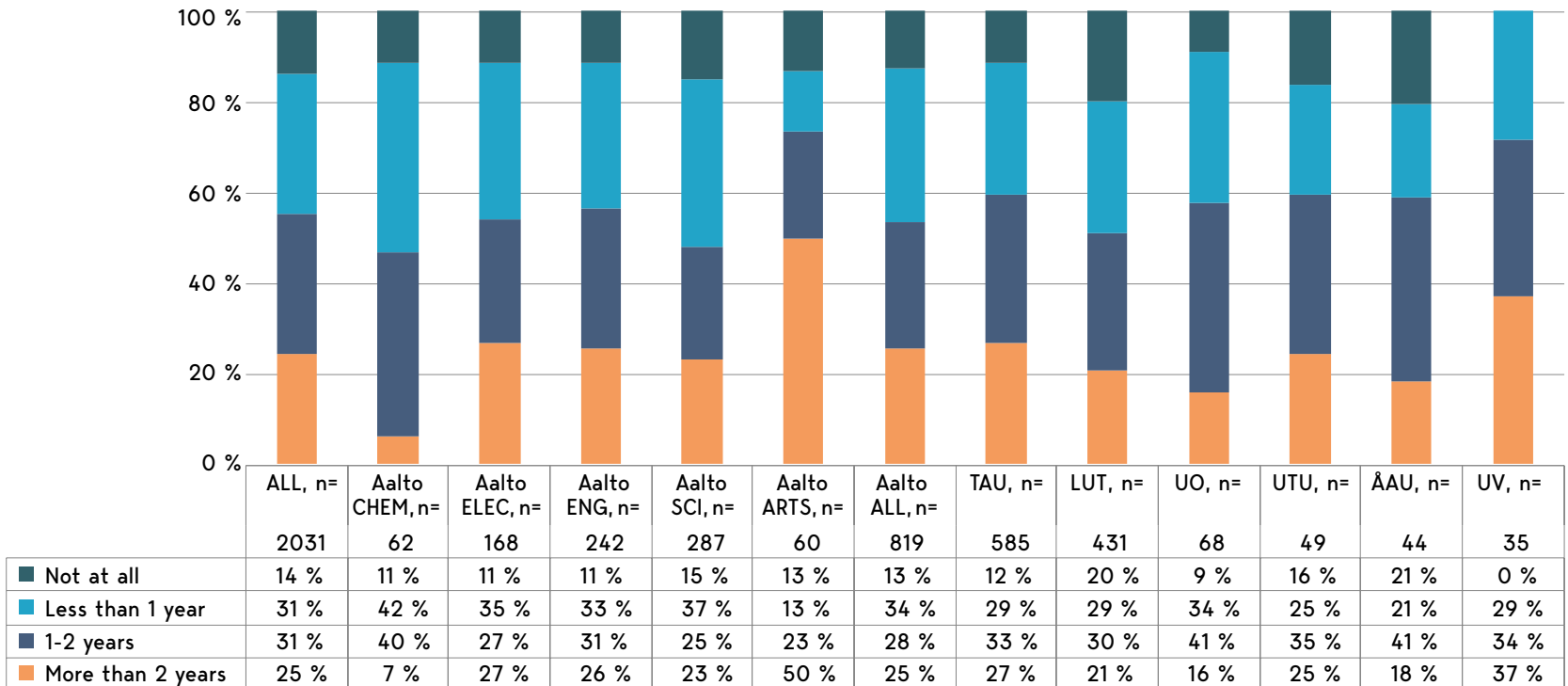
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Work experience gained during the studies

Work experience of own field (excl. M.Sc thesis), months

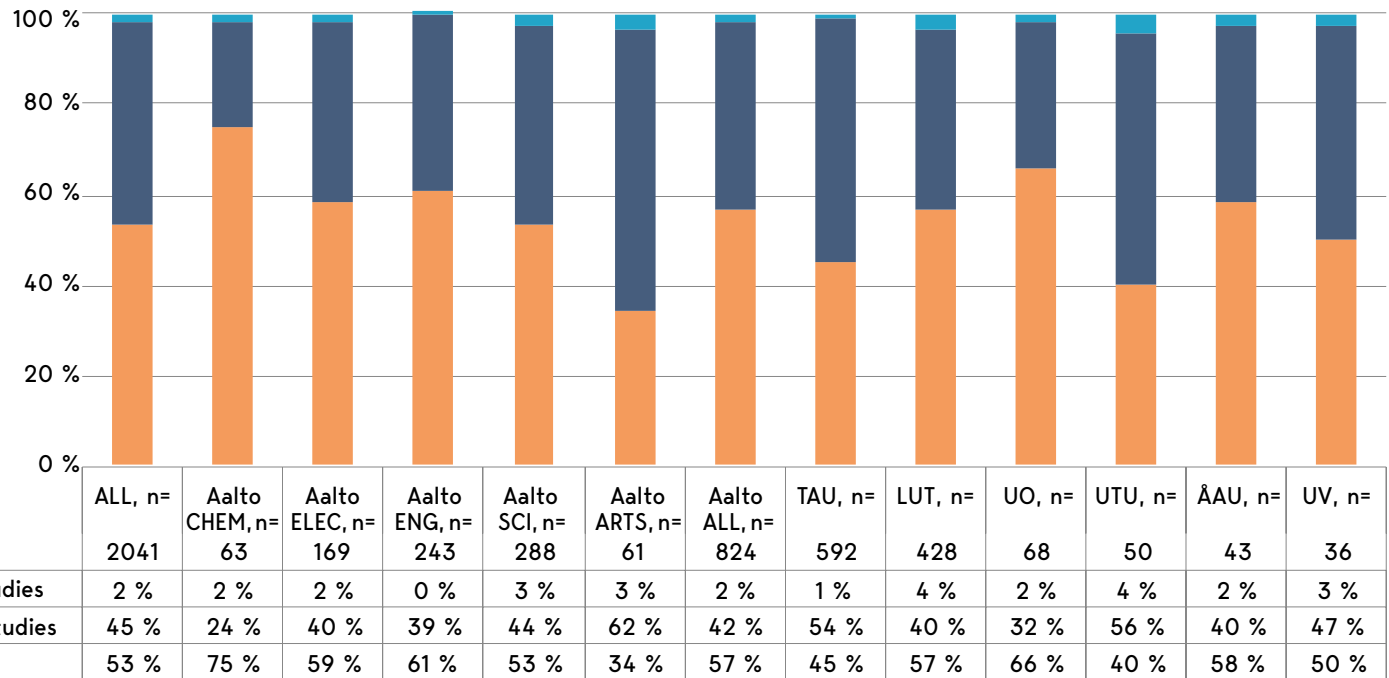
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Working and progress of the studies

Did working during studies affect the progress of your studies?

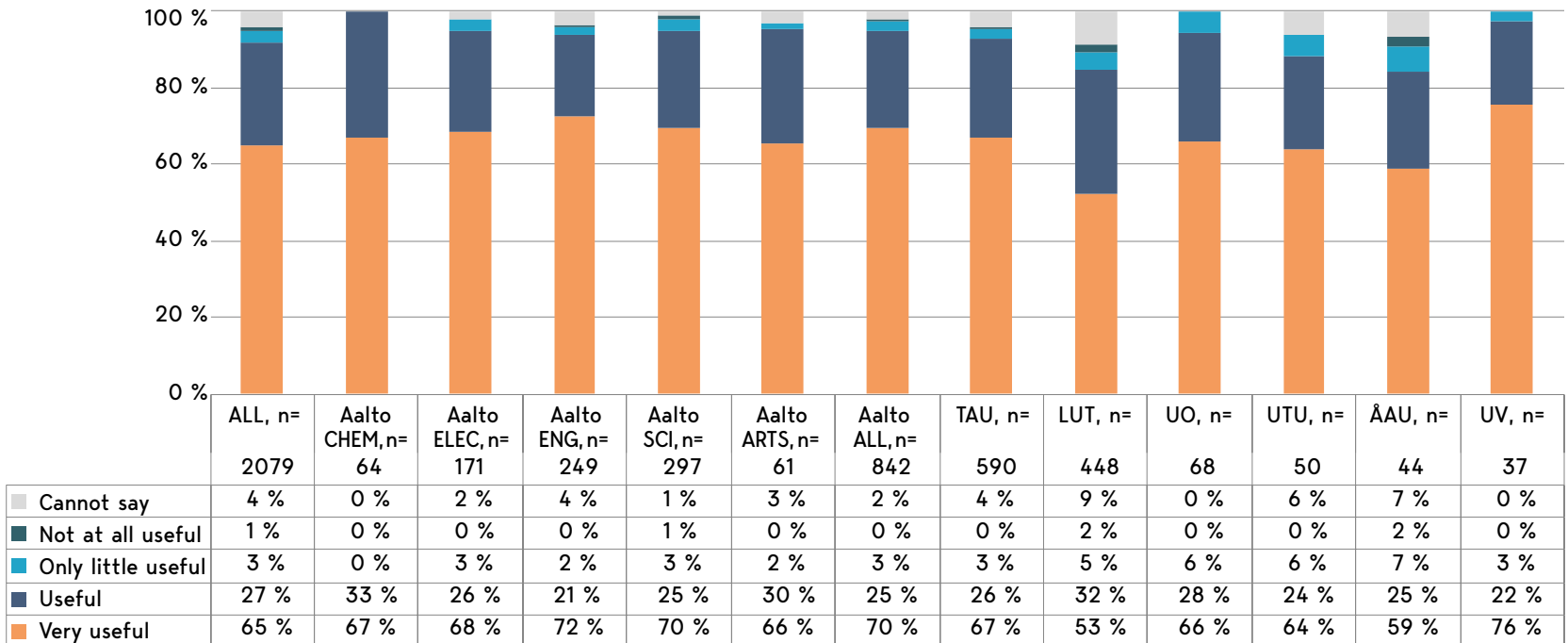
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Importance of work experience

How useful do you consider the study related practice / work experience that gained during your studies?

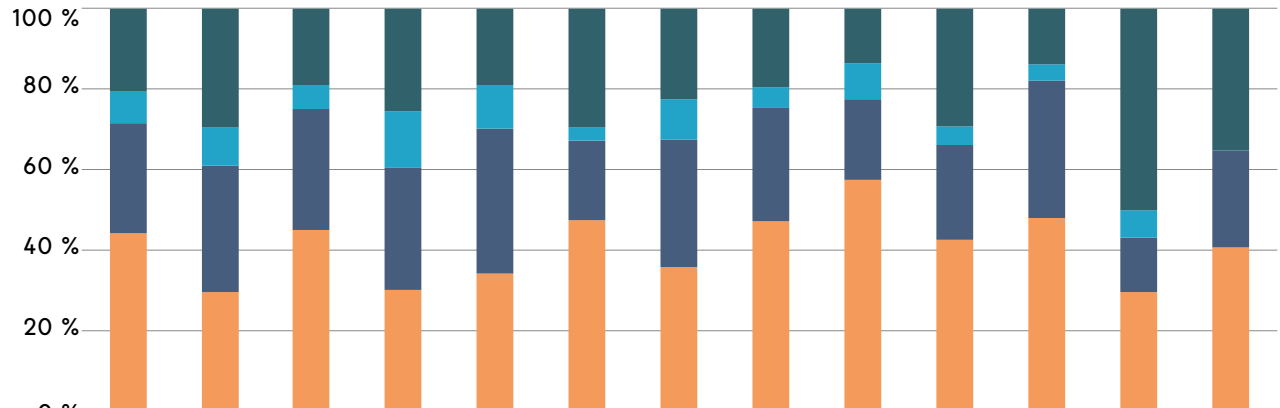
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Voluntary engagement and activity

Participation in the activities of the guild or student association of your field

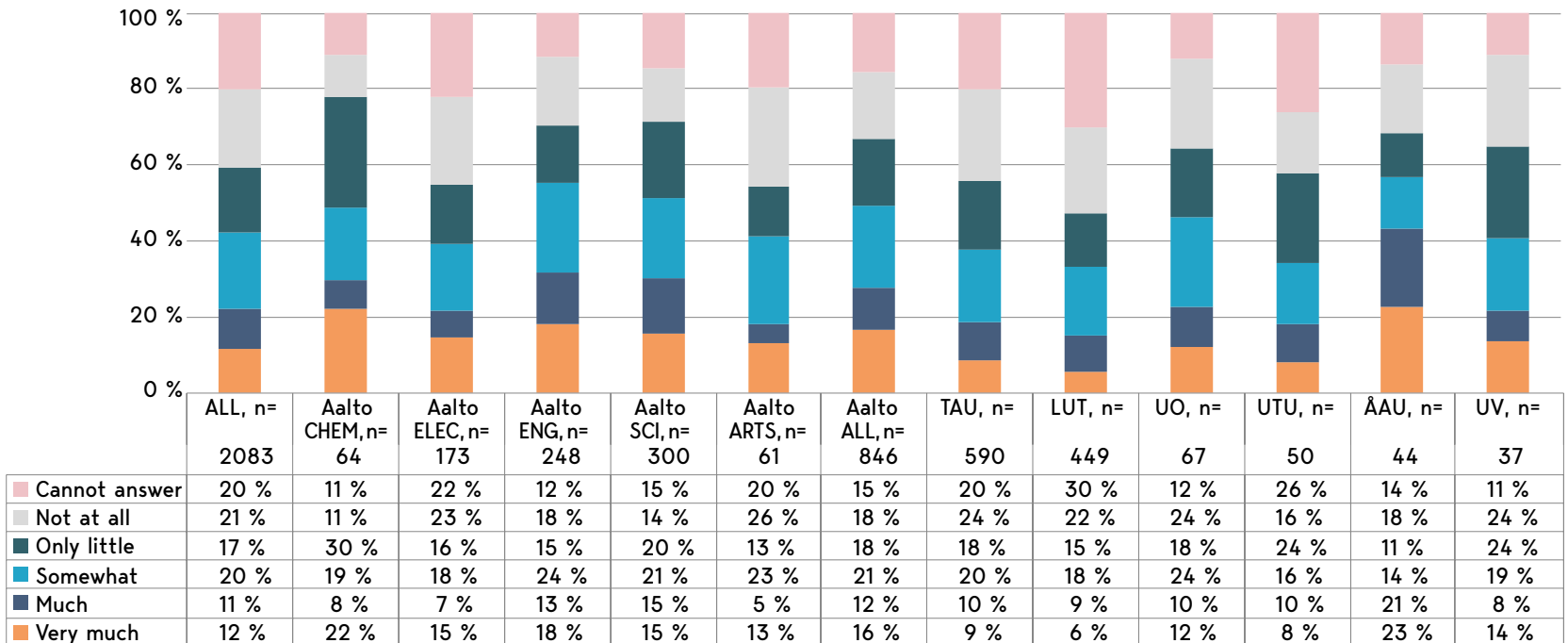
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	ALL, n= 2086	Aalto CHEM, n= 64	Aalto ELEC, n= 173	Aalto ENG, n= 248	Aalto SCI, n= 298	Aalto ARTS, n= 61	Aalto ALL, n= 844	TAU, n= 594	LUT, n= 449	UO, n= 68	UTU, n= 50	ÅAU, n= 44	UV, n= 37
■ I have been a board member or official in the guild or student association	21 %	30 %	19 %	25 %	19 %	30 %	23 %	20 %	14 %	29 %	14 %	50 %	35 %
■ Active participation	8 %	9 %	6 %	14 %	11 %	3 %	10 %	5 %	9 %	4 %	4 %	7 %	0 %
■ Occasional participation	27 %	31 %	30 %	30 %	36 %	20 %	32 %	28 %	20 %	24 %	34 %	14 %	24 %
■ Participation very seldom or never	44 %	30 %	45 %	30 %	34 %	48 %	36 %	47 %	58 %	43 %	48 %	30 %	41 %

Voluntary engagement and activity

Gained support for studies or career management capacities from the activities of the guild or student association ©TEK Graduate Survey 2020



7. EMPLOYMENT

Situation at the time of graduation

Type of employment

Type of work

Operating sector

Size of the employer

Principal duties

Organizational position

Basic salary

Quality of the employment

Previous relation with the employer

Method of recruitment

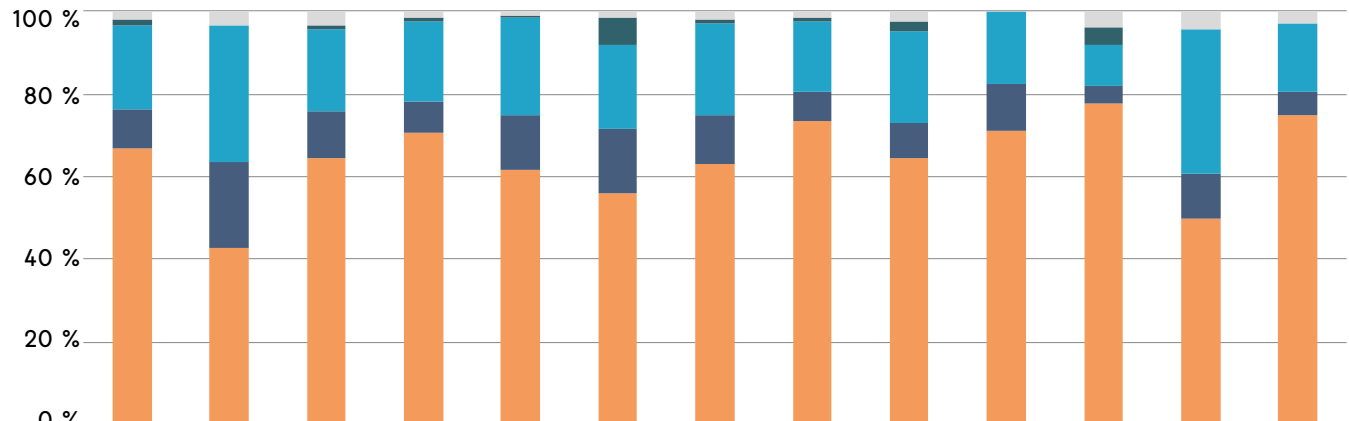
Location of the job

Working abroad

Situation at the time of graduation

Describe your situation at the time of graduation.

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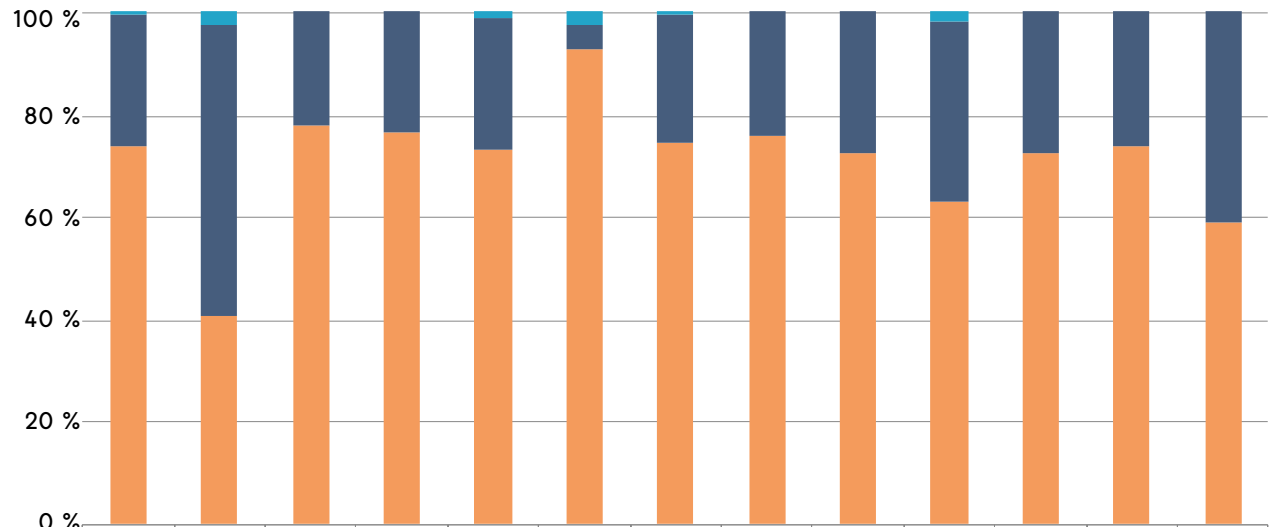


	ALL, n= 2108	Aalto CHEM, n= 63	Aalto ELEC, n= 173	Aalto ENG, n= 247	Aalto SCI, n= 305	Aalto ARTS, n= 64	Aalto ALL, n= 852	TAU, n= 603	LUT, n= 452	UO, n= 69	UTU, n= 50	ÅAU, n= 46	UV, n= 36
Other	2 %	3 %	4 %	2 %	1 %	2 %	2 %	2 %	2 %	0 %	4 %	4 %	3 %
I'm working as an entrepreneur or I'm otherwise self-employed.	1 %	0 %	1 %	1 %	0 %	6 %	1 %	1 %	2 %	0 %	4 %	0 %	0 %
I am seeking for a job.	20 %	33 %	20 %	19 %	24 %	20 %	22 %	17 %	22 %	17 %	10 %	35 %	17 %
I know, where I'm going to be employed after my graduation (salaried work).	10 %	21 %	11 %	8 %	13 %	16 %	12 %	7 %	9 %	12 %	4 %	11 %	6 %
I have a work contract.	67 %	43 %	65 %	70 %	62 %	56 %	63 %	74 %	64 %	71 %	78 %	50 %	75 %

Type of contract If employed

Type of your current employment

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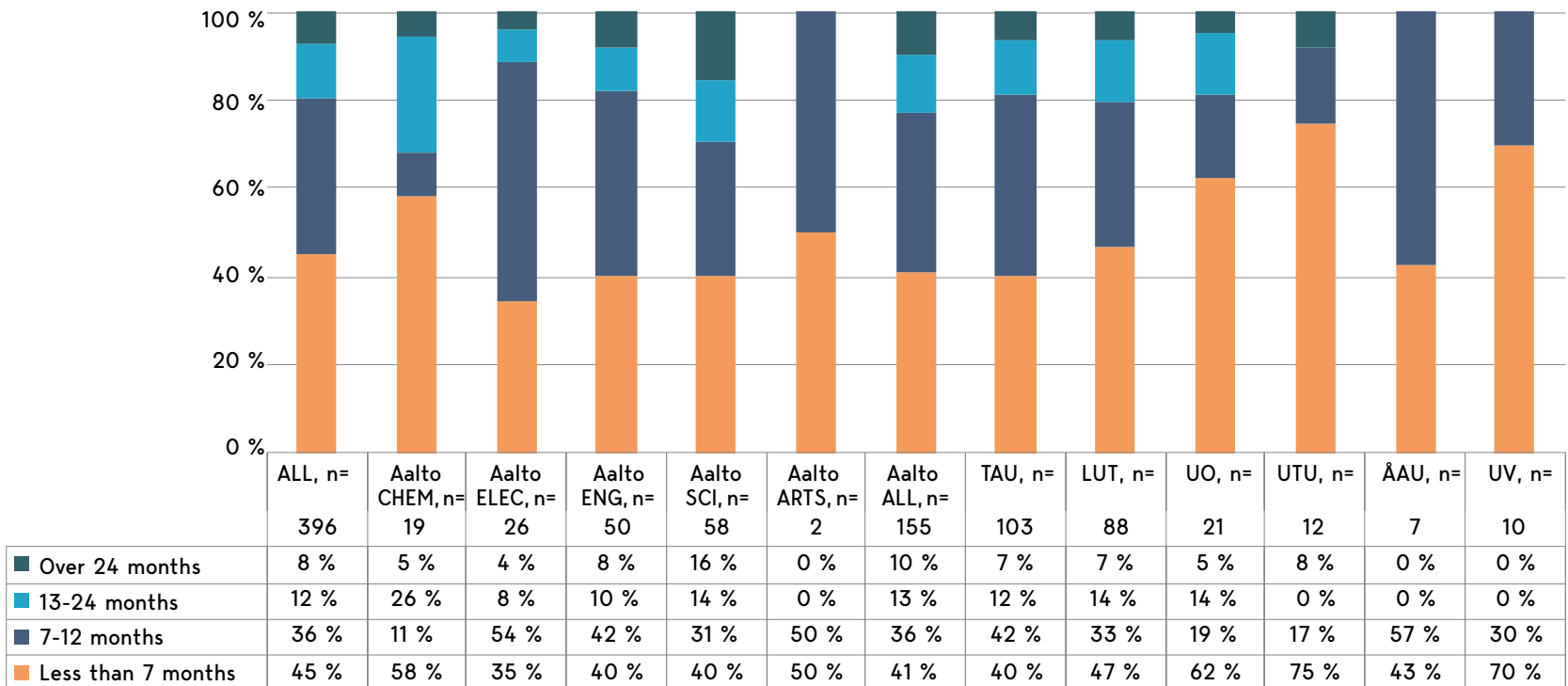


	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	1555	39	129	187	221	43	619	464	321	57	40	27	27
Other	0 %	3 %	0 %	0 %	1 %	2 %	1 %	0 %	0 %	2 %	0 %	0 %	0 %
Fixed-term / temporary work contract	26 %	56 %	22 %	24 %	26 %	5 %	25 %	24 %	28 %	35 %	28 %	26 %	41 %
Permanent work contract	74 %	41 %	78 %	77 %	73 %	93 %	75 %	76 %	72 %	63 %	73 %	74 %	59 %

Fixed term contract If employed

Fixed term / temporary contract, duration

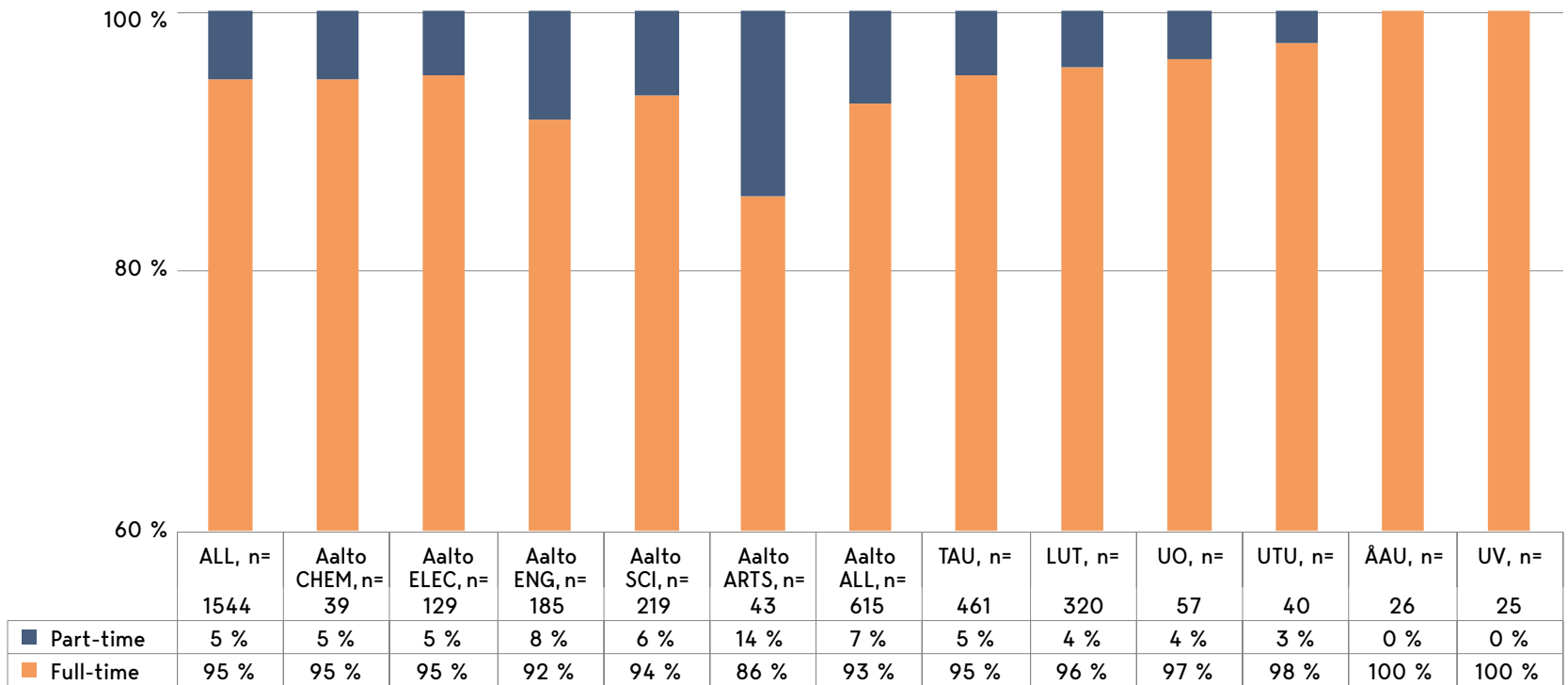
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Type of work If employed

Your work is

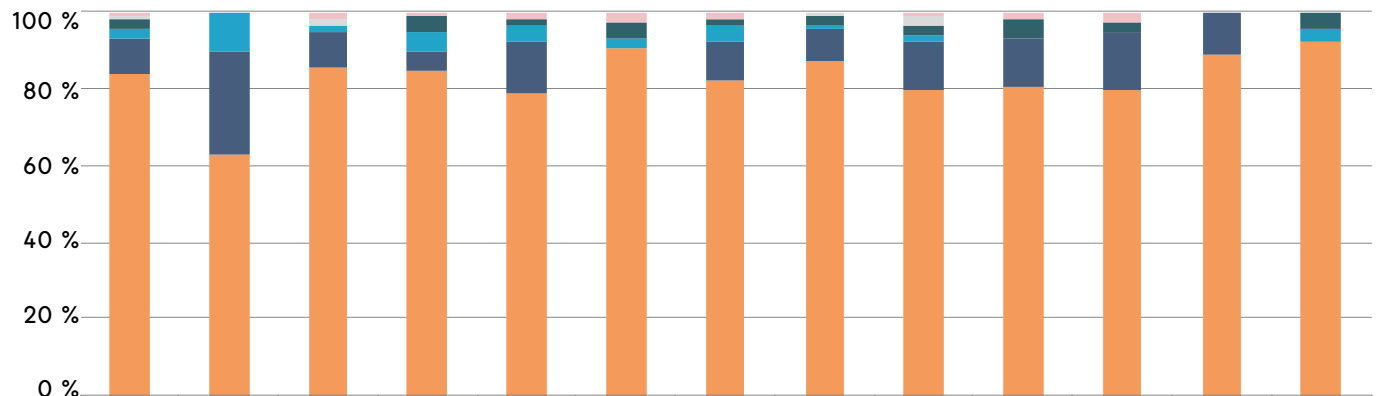
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Operating sector If employed

Operating sector of your employer

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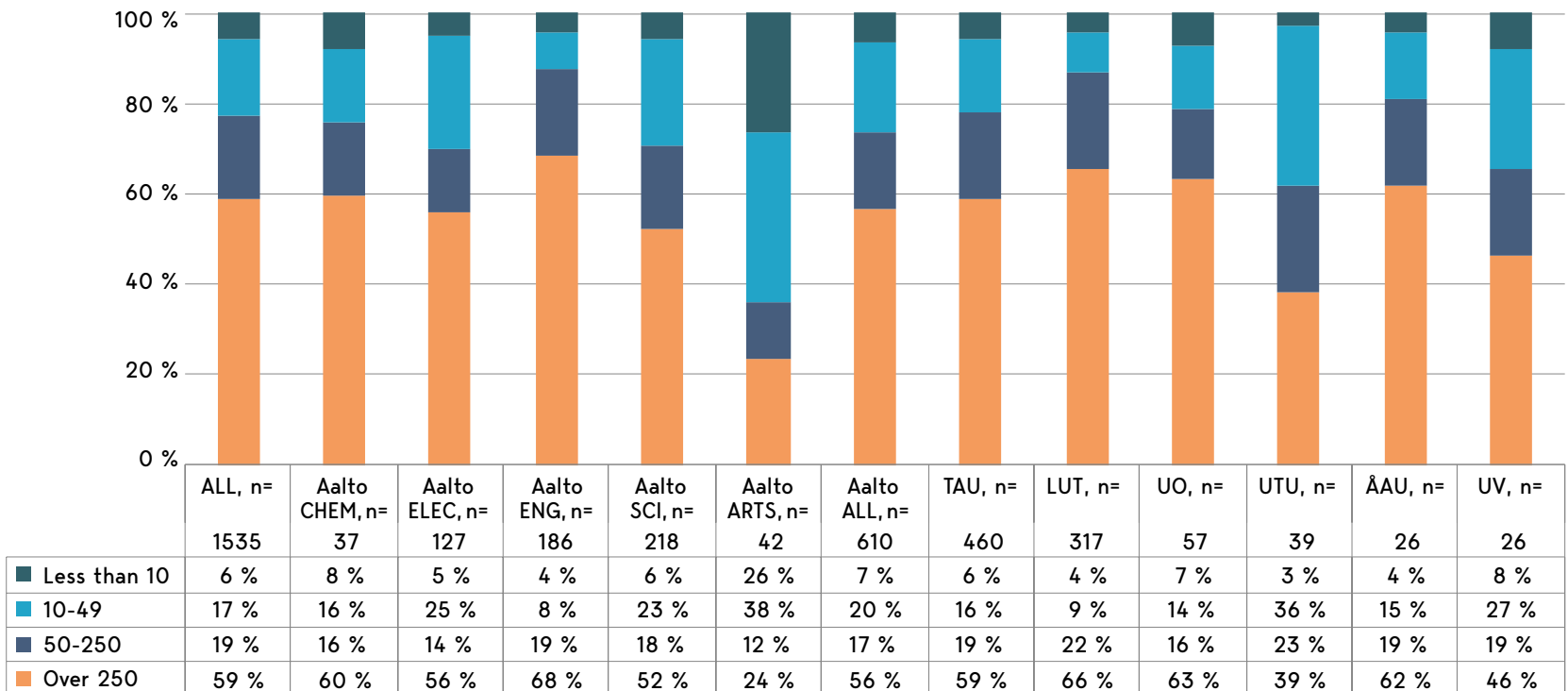


	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	1543	38	127	186	220	43	614	461	320	57	40	26	25
Association / Third sector	1 %	0 %	2 %	1 %	2 %	2 %	2 %	0 %	1 %	2 %	3 %	0 %	0 %
Central government	1 %	0 %	2 %	0 %	0 %	0 %	0 %	1 %	3 %	0 %	0 %	0 %	0 %
Local government	2 %	0 %	0 %	4 %	1 %	5 %	2 %	2 %	3 %	5 %	3 %	0 %	4 %
Research institute	2 %	11 %	2 %	5 %	5 %	2 %	4 %	1 %	1 %	0 %	0 %	0 %	4 %
University	10 %	26 %	9 %	5 %	13 %	0 %	10 %	8 %	13 %	12 %	15 %	12 %	0 %
Private sector	83 %	63 %	86 %	84 %	79 %	91 %	82 %	87 %	80 %	81 %	80 %	89 %	92 %

Size of the employer if employed

Size of your employer based on the amount of personnel?

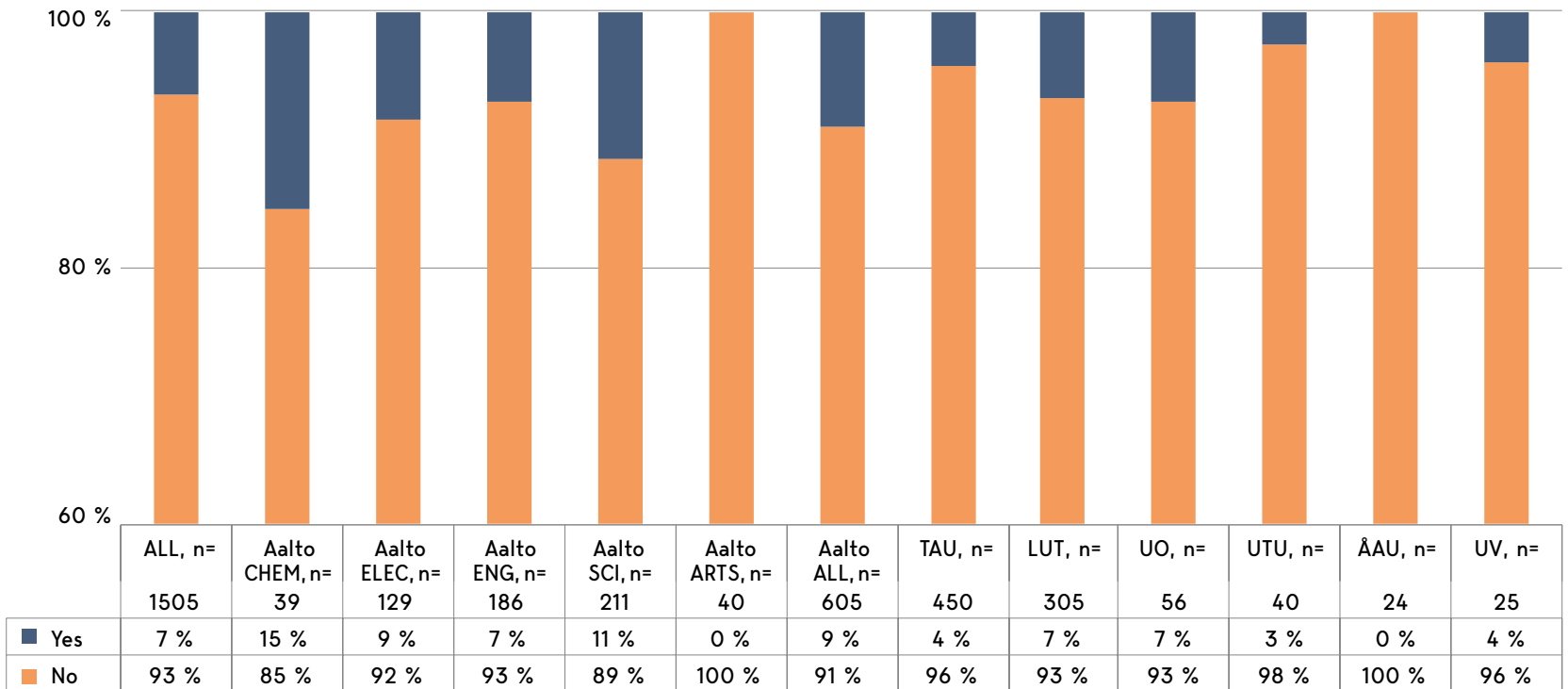
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Doctoral studies If employed

I work as a full-time doctoral candidate

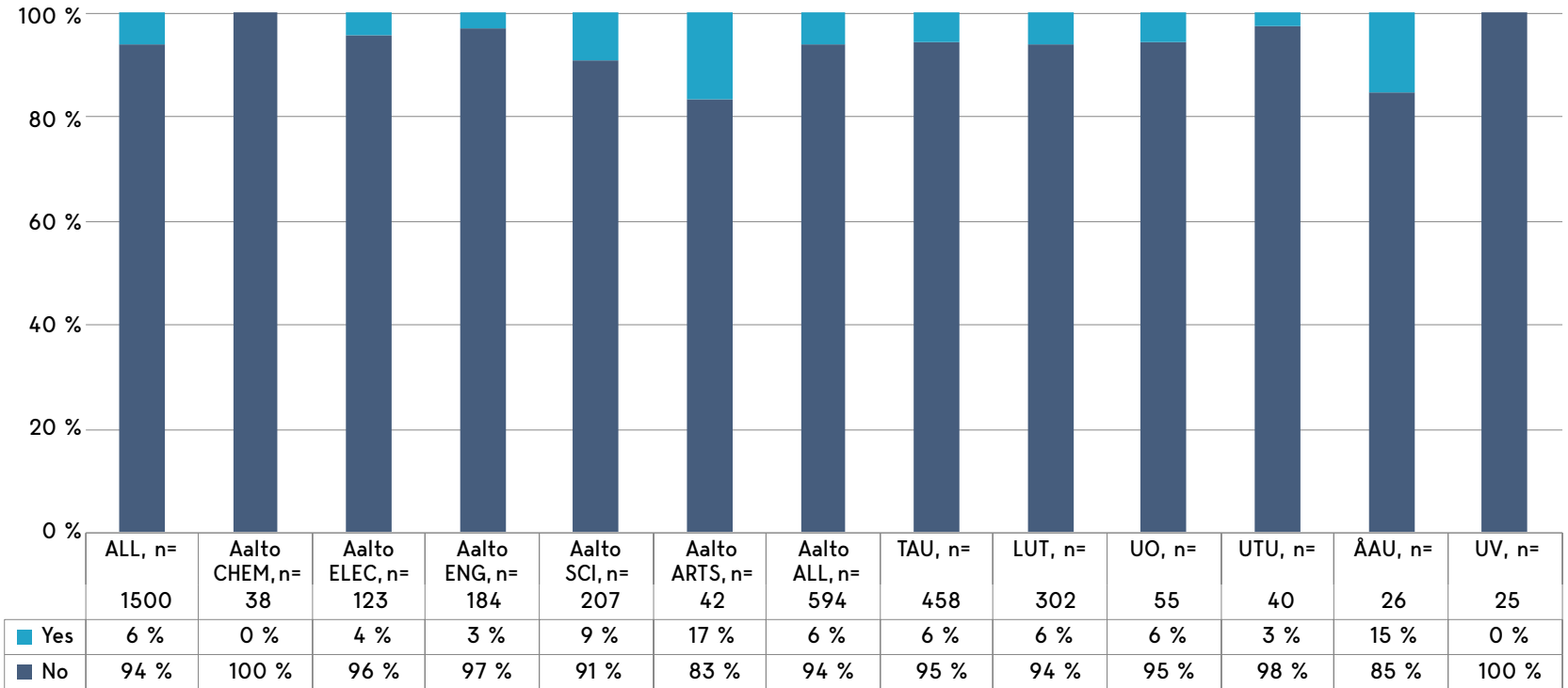
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Part-time entrepreneurship If employed

I also work as a part-time entrepreneur.

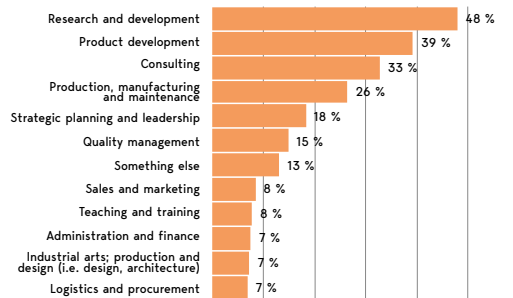
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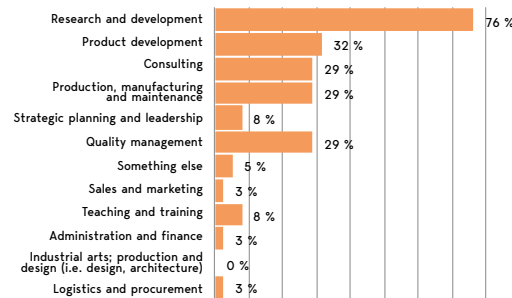
Principal duties If employed

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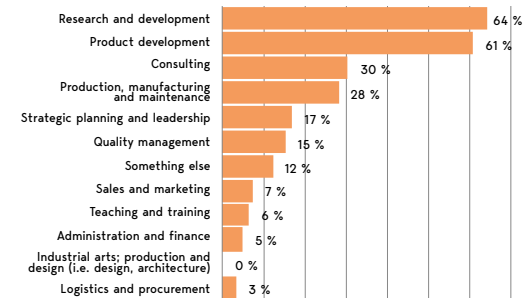
ALL, n=1523



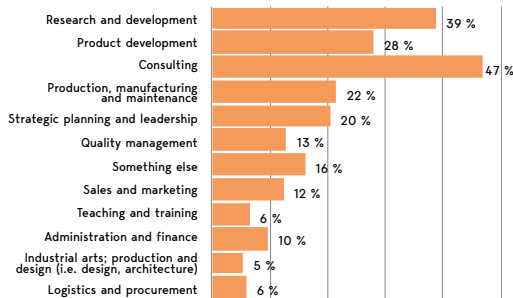
Aalto CHEM, n=38



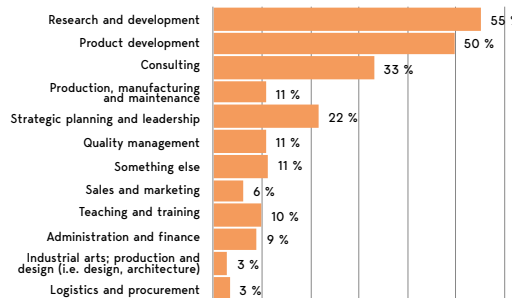
Aalto ELEC, n=125



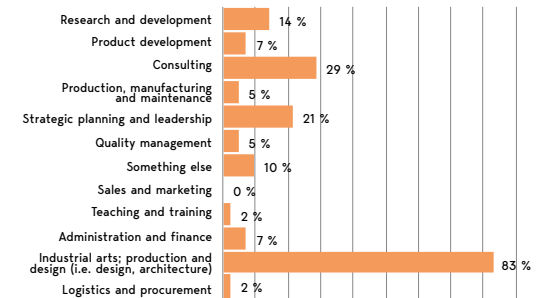
Aalto ENG, n=186



Aalto SCI, n=212



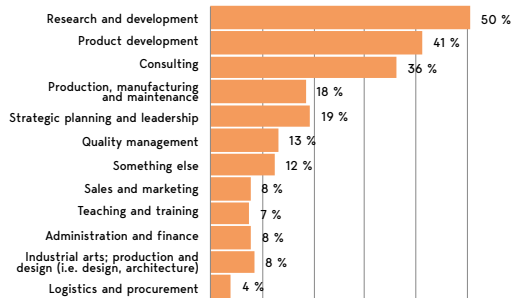
Aalto ARTS, n=42



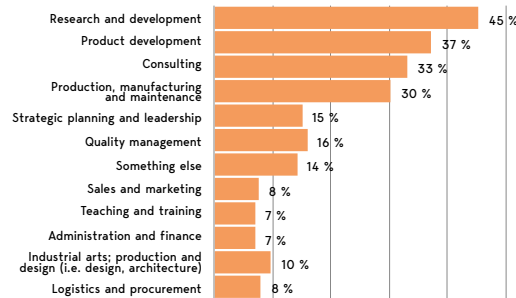
Principal duties If employed

©TEK Graduate Survey 2019

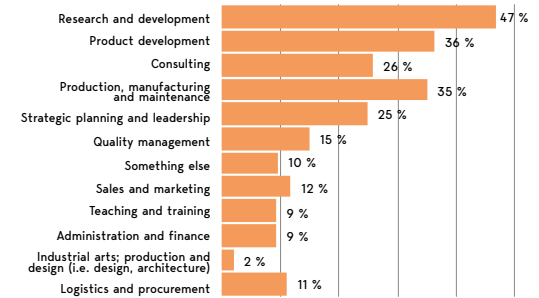
Aalto ALL, n=603



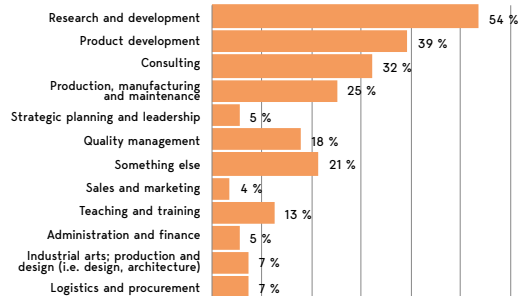
TAU, n=459



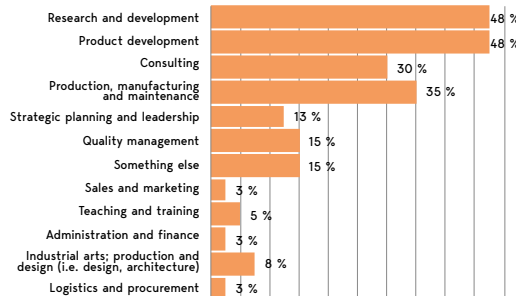
LUT, n=315



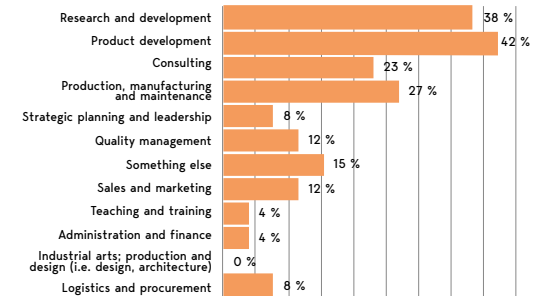
UO, n=56



UTU, n=40



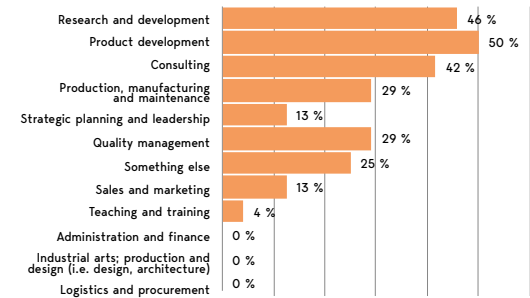
ÅAU, n=26



Principal duties If employed

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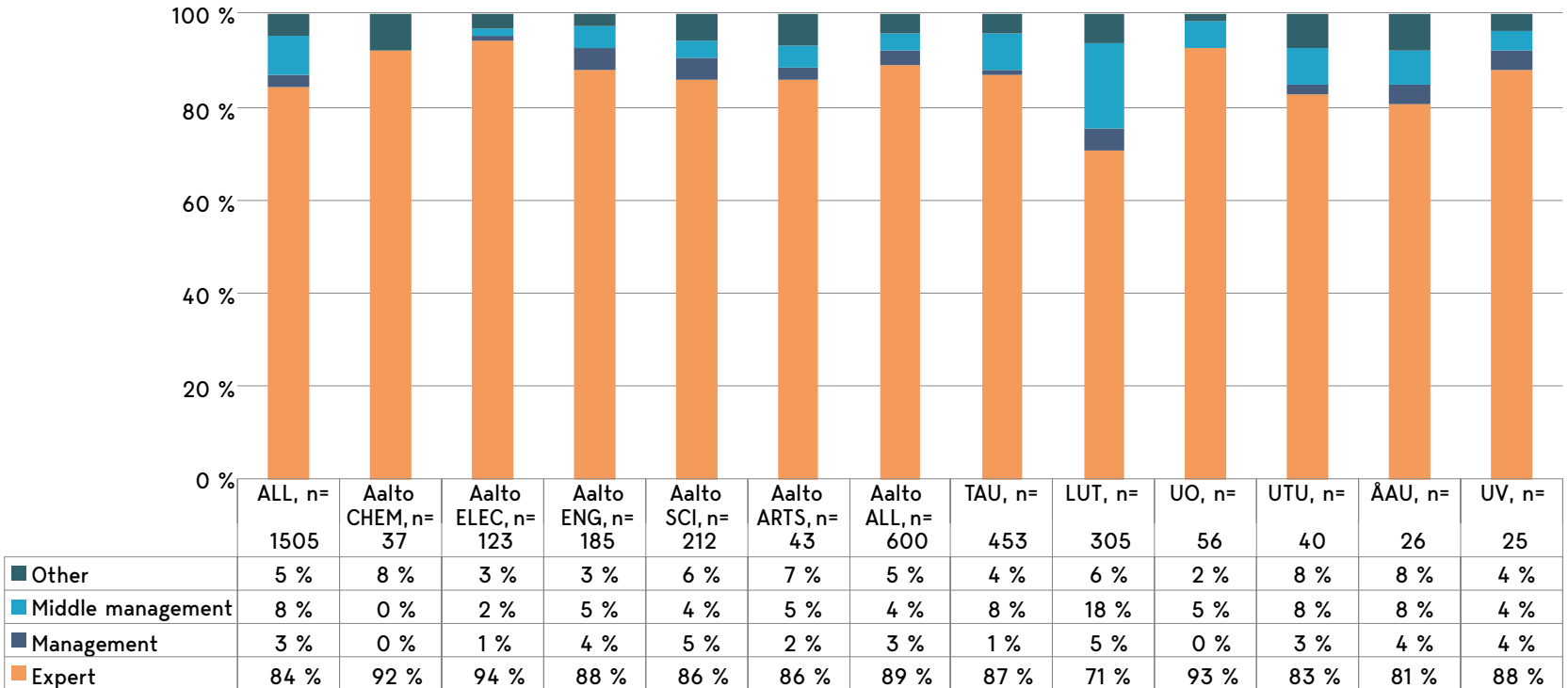
UV, n=24



Organizational position If employed

Your organizational position

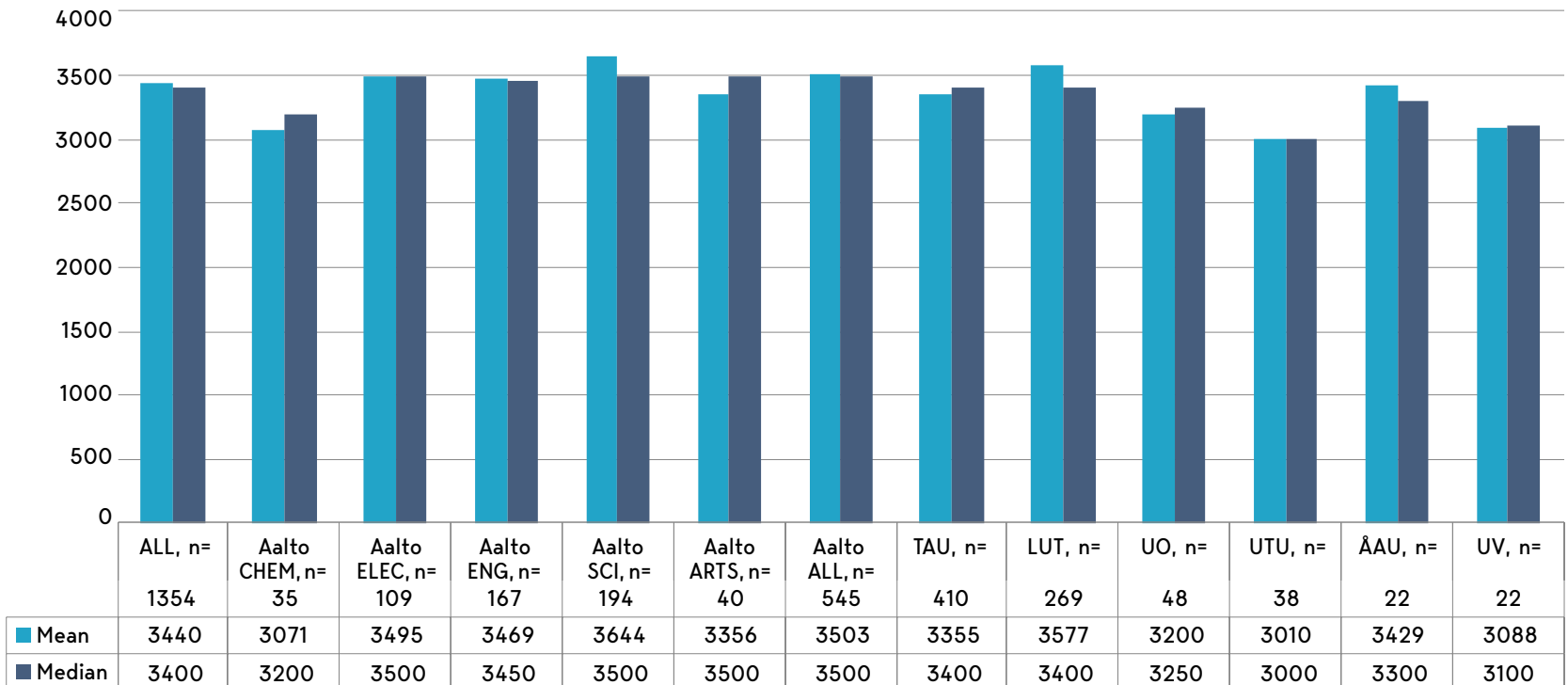
©TEK Graduate Survey 2020



Basic salary If employed

Basic wage or salary, EUR/month

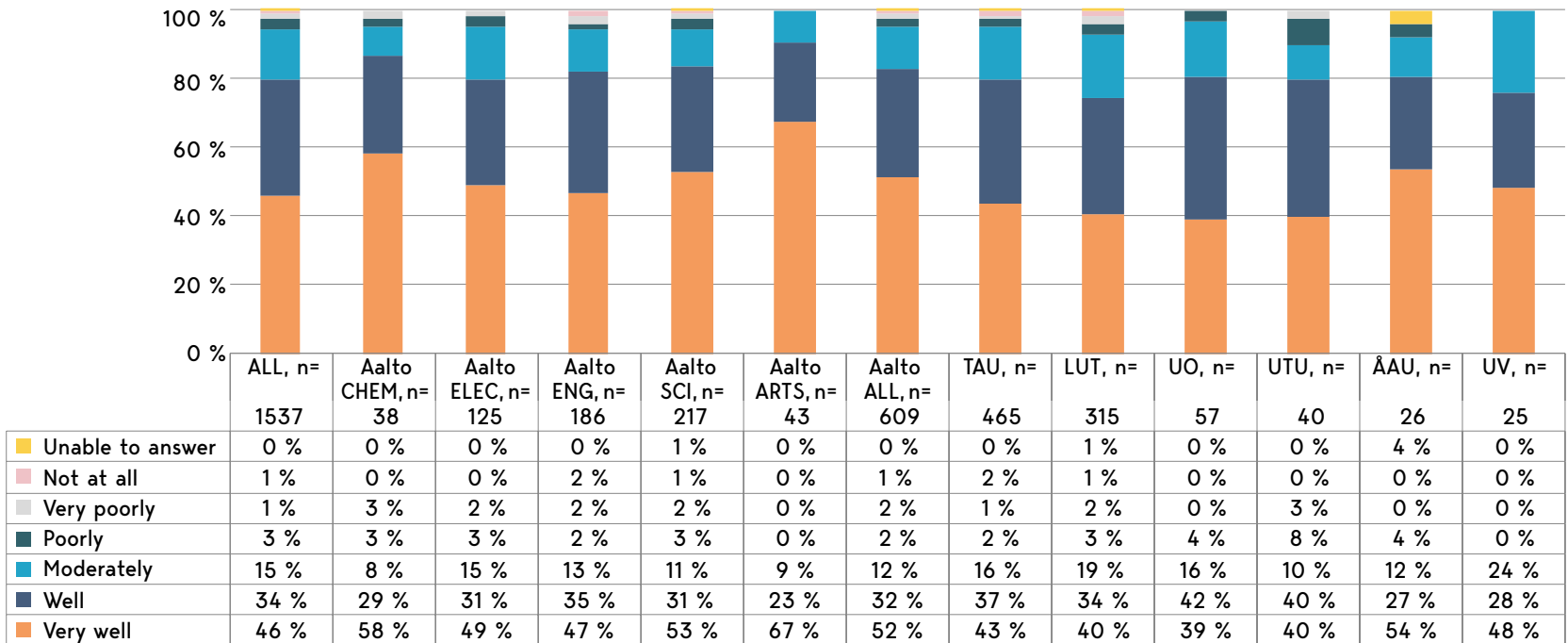
©TEK Graduate Survey 2020



Quality of the employment If employed

How well does the content of your job correspond with your field of studies?

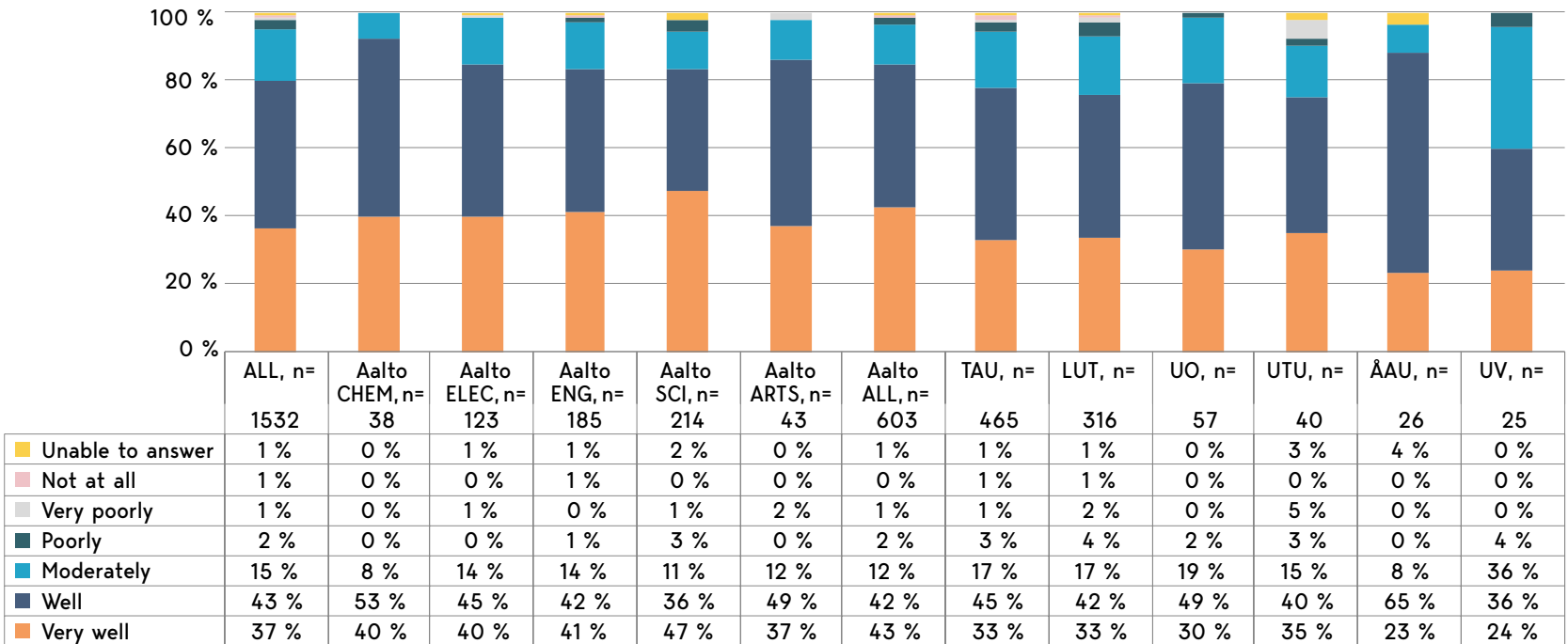
©TEK Graduate Survey 2020



Quality of the employment If employed

How well does the level of demand in your job correspond with your educational level?

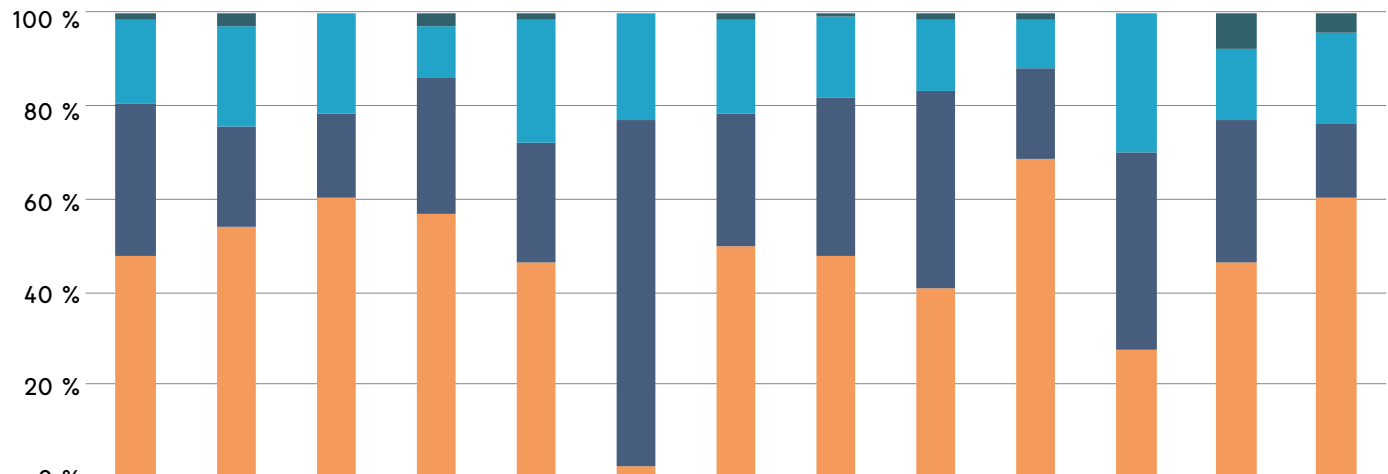
©TEK Graduate Survey 2020



Previous relation with the employer If employed

Do you have a previous relation with your employer?

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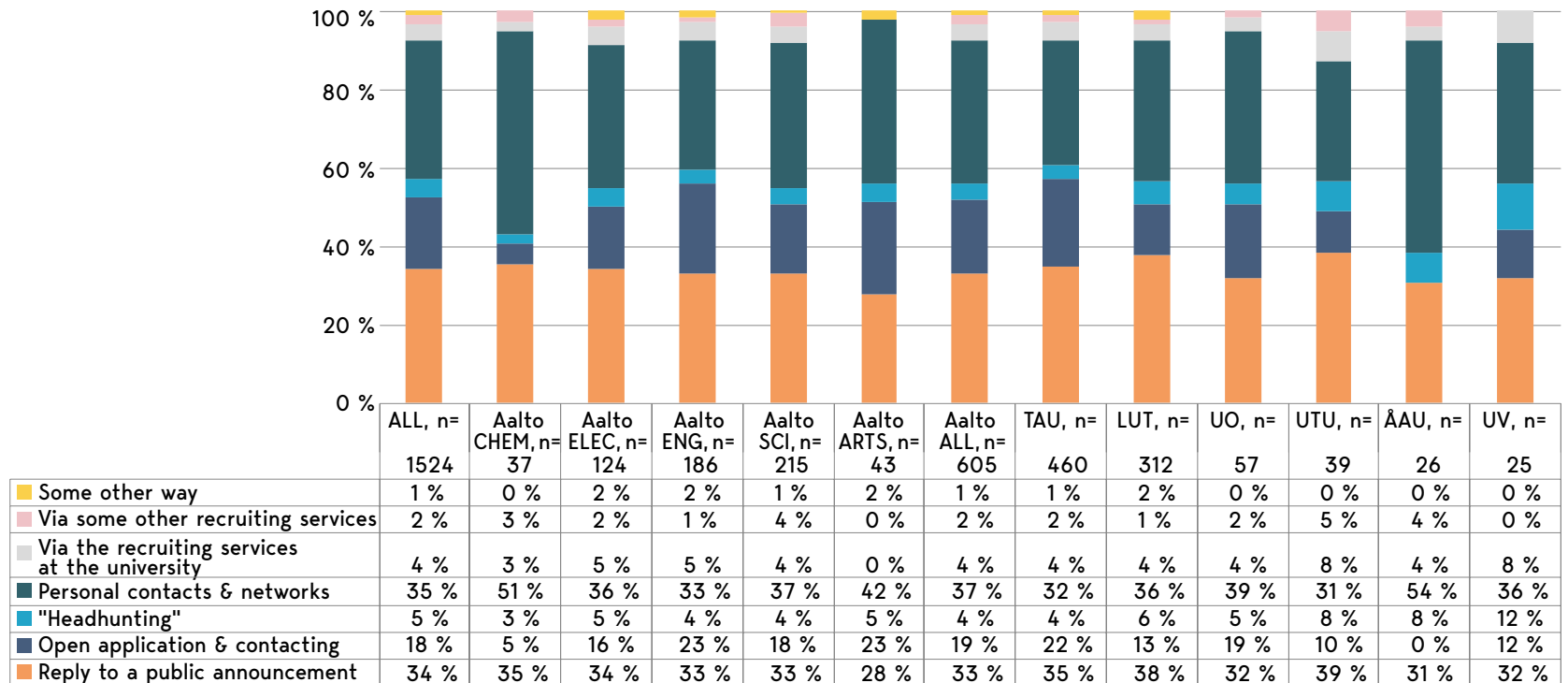


	ALL, n=	Aalto CHEM, n=	Aalto ELEC, n=	Aalto ENG, n=	Aalto SCI, n=	Aalto ARTS, n=	Aalto ALL, n=	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	1528	37	126	185	216	43	607	462	311	57	40	26	25
■ Something else	1 %	3 %	0 %	3 %	1 %	0 %	2 %	1 %	2 %	2 %	0 %	8 %	4 %
■ No previous relation	18 %	22 %	21 %	11 %	27 %	23 %	20 %	18 %	15 %	11 %	30 %	15 %	20 %
■ Yes, based on work experience (excl. Master's thesis work).	33 %	22 %	18 %	29 %	26 %	74 %	28 %	34 %	42 %	19 %	43 %	31 %	16 %
■ Yes, based on Master's thesis collaboration	47 %	54 %	60 %	57 %	46 %	2 %	50 %	47 %	41 %	68 %	28 %	46 %	60 %

Method of recruitment If employed

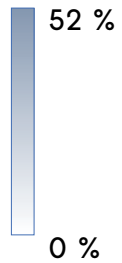
How did you get your current job?

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Location of the job If employed

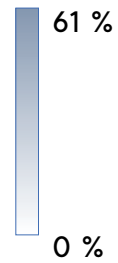
ALL, n= 1535



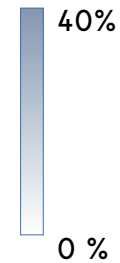
Aalto ALL, n= 609



TAU, n= 463



LUT, n= 315



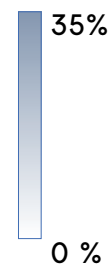
UO, n= 57



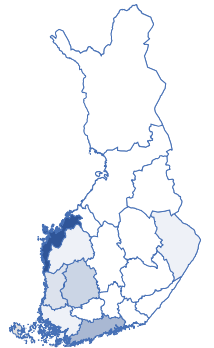
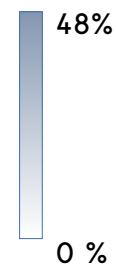
UTU, n= 40



ÅAU, n= 26

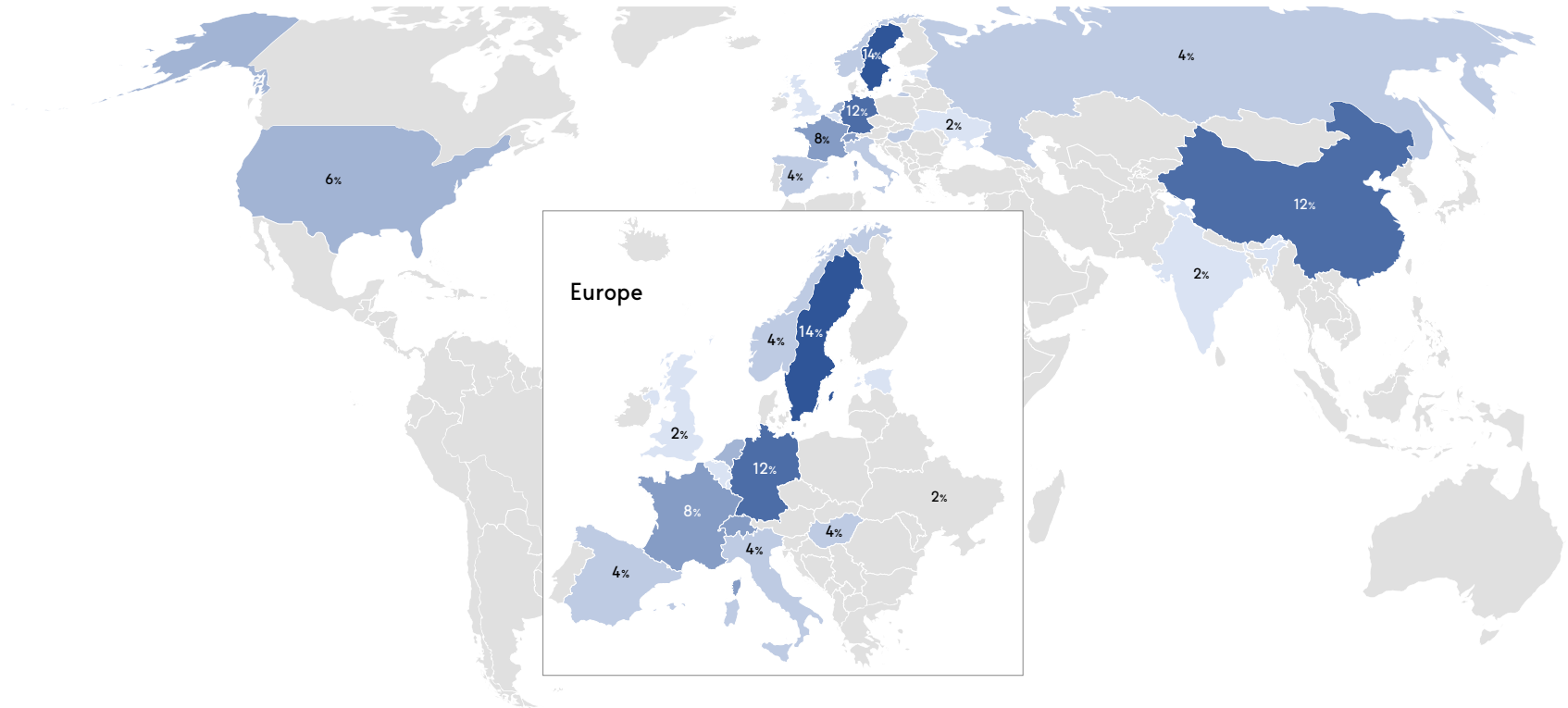


UV, n= 25



Location of the job if abroad

The country where your job is located (outside Finland), n=49

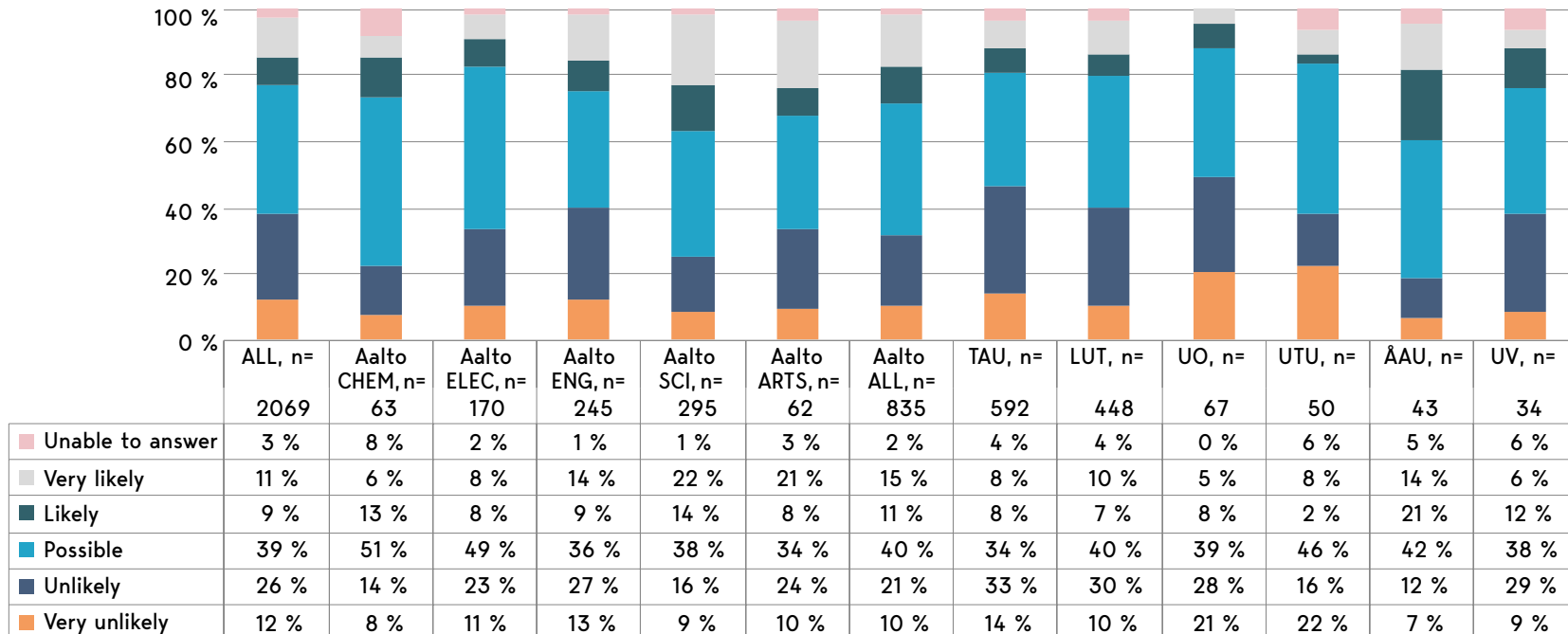


Palvelun tarjoaa Bing
© DSAT for MSFT, GeoNames, Microsoft, Navteq

Working abroad

According to your own view, how likely it is that you will work elsewhere than in Finland within 5 years of your graduation?

©TEK Graduate Survey 2020



8. SATISFACTION

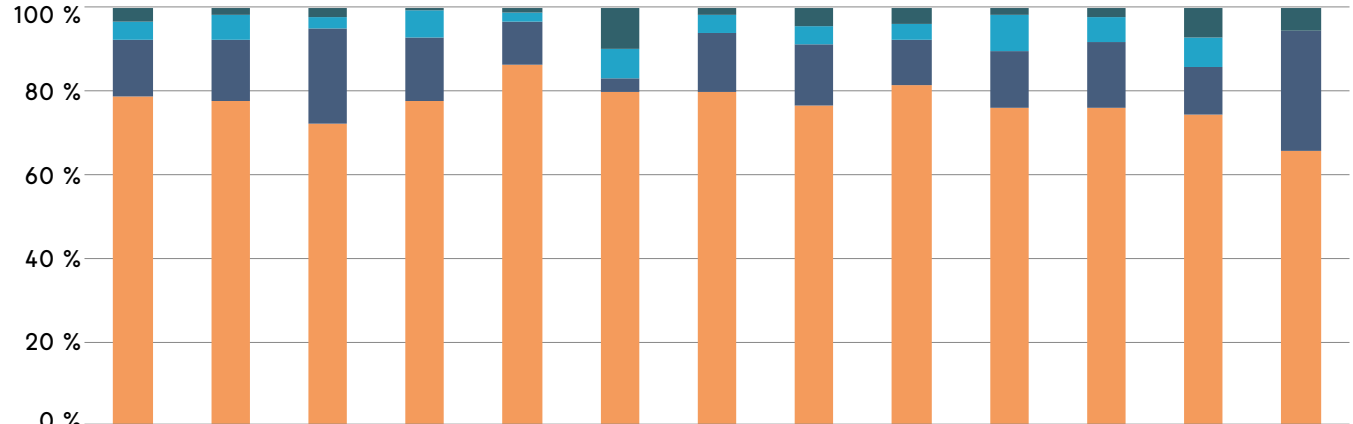
Reselection of the education

Satisfaction with the studies

Reselection of education

If you could choose again, would now you choose the same basic degree and degree programme / major subject?

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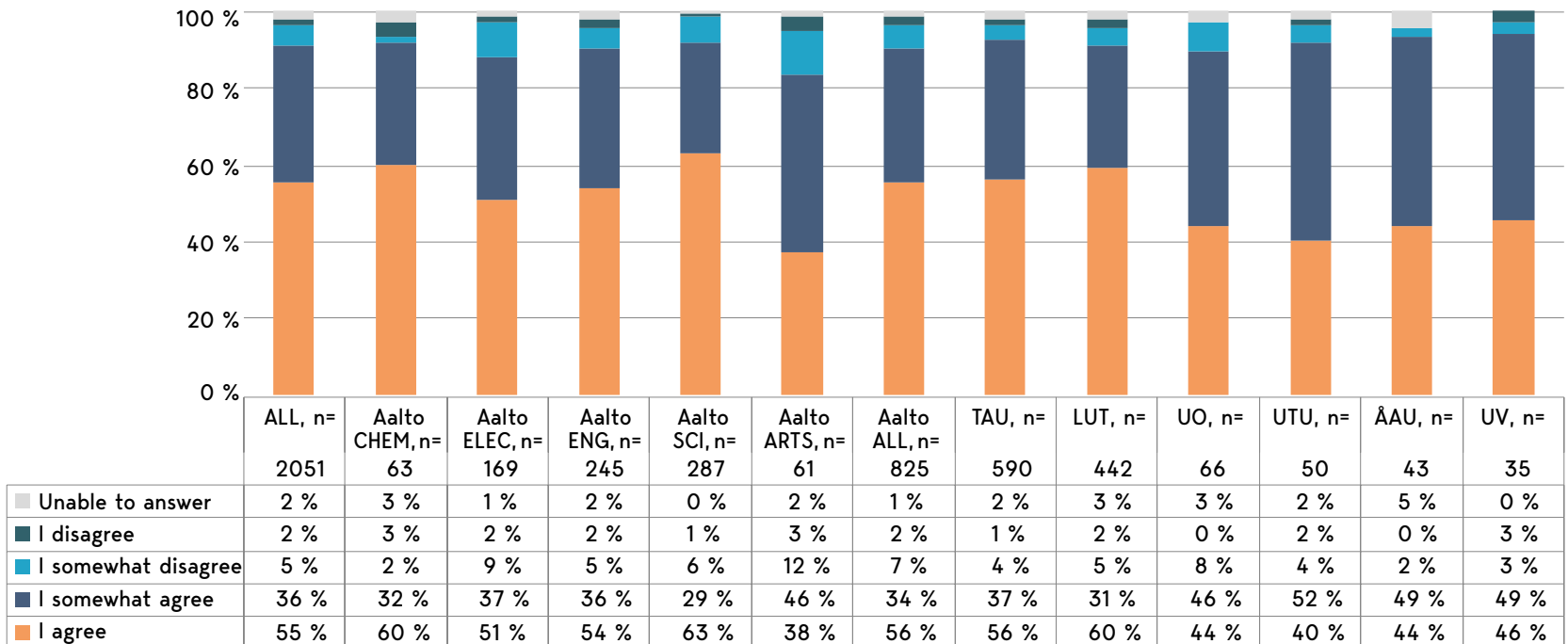


	ALL, n=	Aalto	Aalto	Aalto	Aalto	Aalto	Aalto	TAU, n=	LUT, n=	UO, n=	UTU, n=	ÅAU, n=	UV, n=
	2044	CHEM, n=	ELEC, n=	ENG, n=	SCI, n=	ARTS, n=	ALL, n=	586	439	67	50	43	35
■ Something else	3 %	2 %	2 %	1 %	1 %	10 %	2 %	4 %	4 %	2 %	2 %	7 %	6 %
■ University education, but other than technology	4 %	6 %	2 %	6 %	2 %	7 %	4 %	4 %	4 %	9 %	6 %	7 %	0 %
■ The same degree, but some other degree programme / major	14 %	14 %	23 %	15 %	11 %	3 %	14 %	15 %	11 %	13 %	16 %	12 %	29 %
■ Yes, the same degree and degree programme / major	79 %	78 %	72 %	78 %	86 %	80 %	80 %	76 %	81 %	76 %	76 %	74 %	66 %

Satisfaction with the studies

1. The competences I have developed in my education meet my expectations.

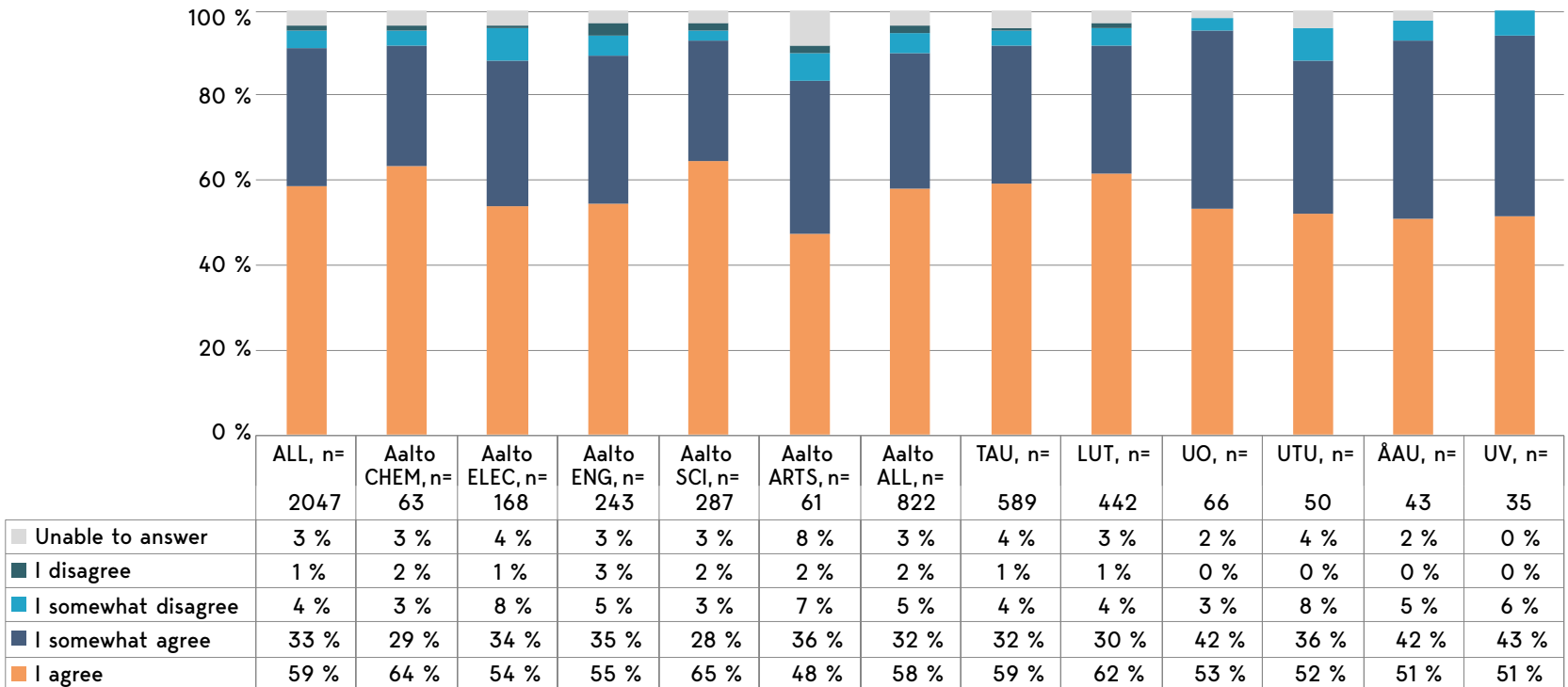
©TEK Graduate Survey 2020



Satisfaction with the studies

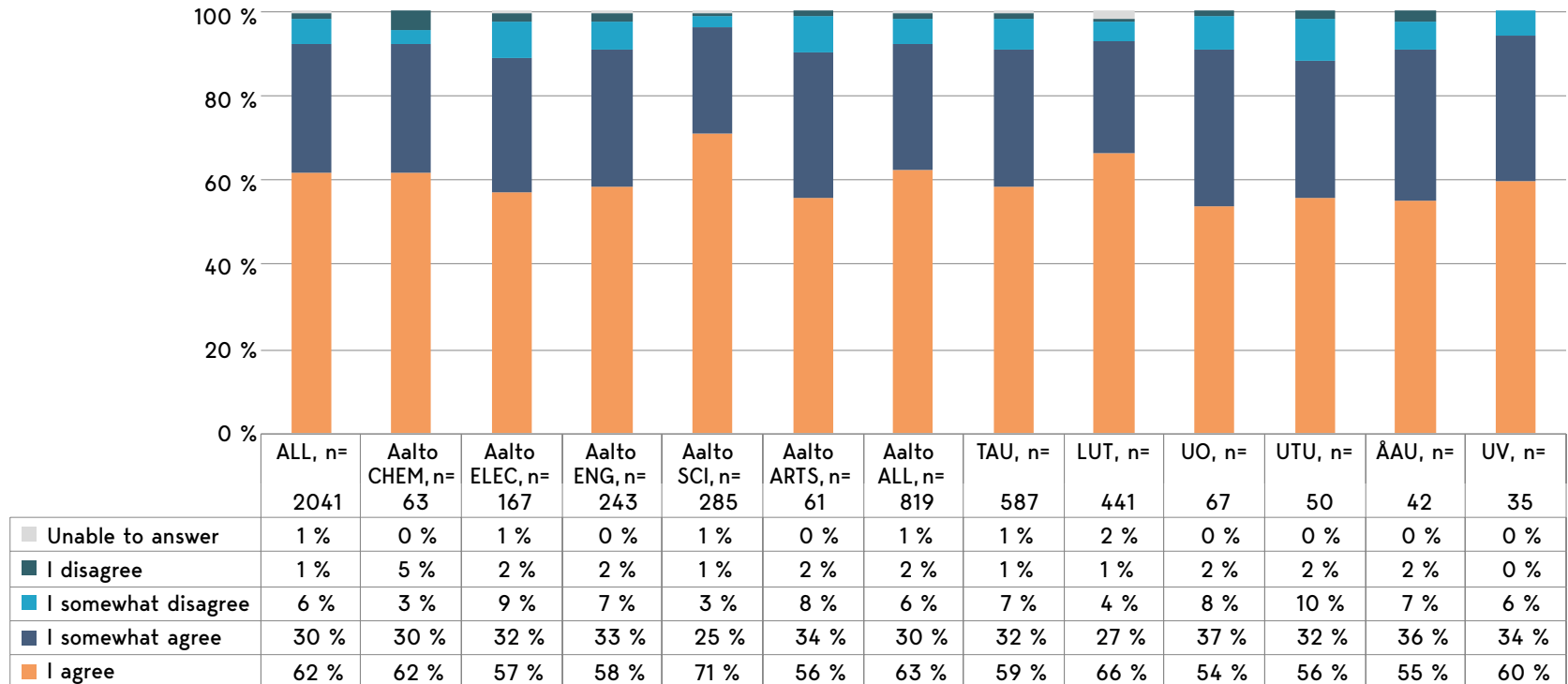
2. My education meets the set goals.

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Satisfaction with the studies

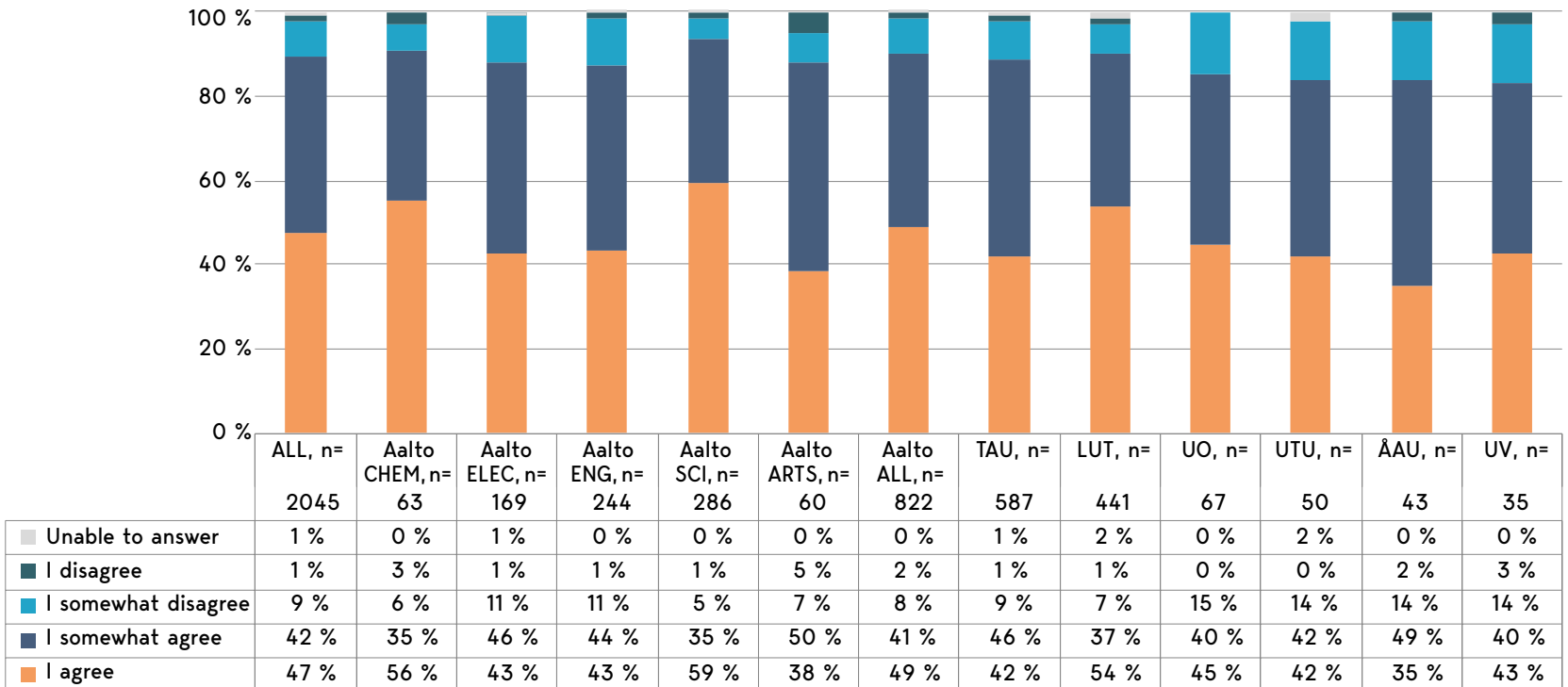
3. The teaching has been, to a large extent, of good quality. ©TEK Graduate Survey 2020



Satisfaction with the studies

4. I have been satisfied with the teaching methods used.

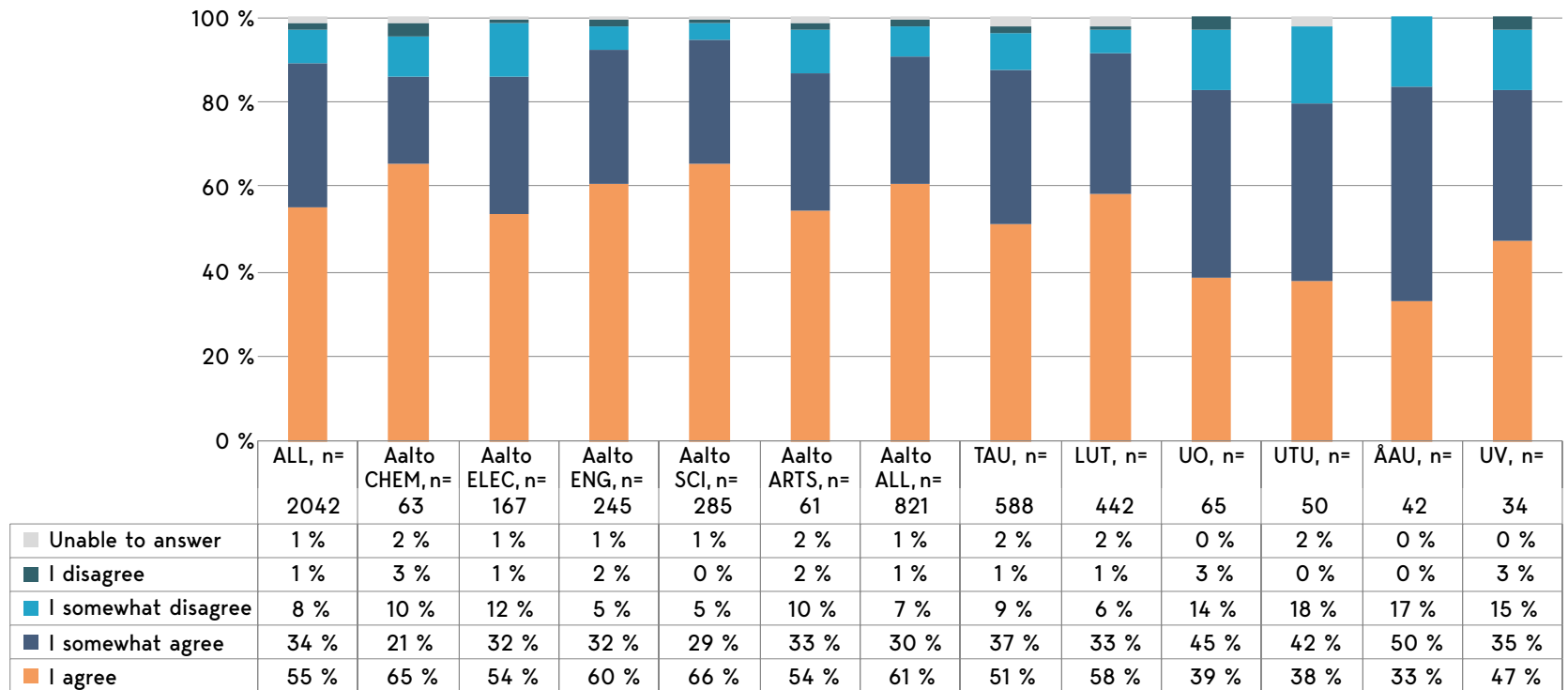
©TEK Graduate Survey 2020



Satisfaction with the studies

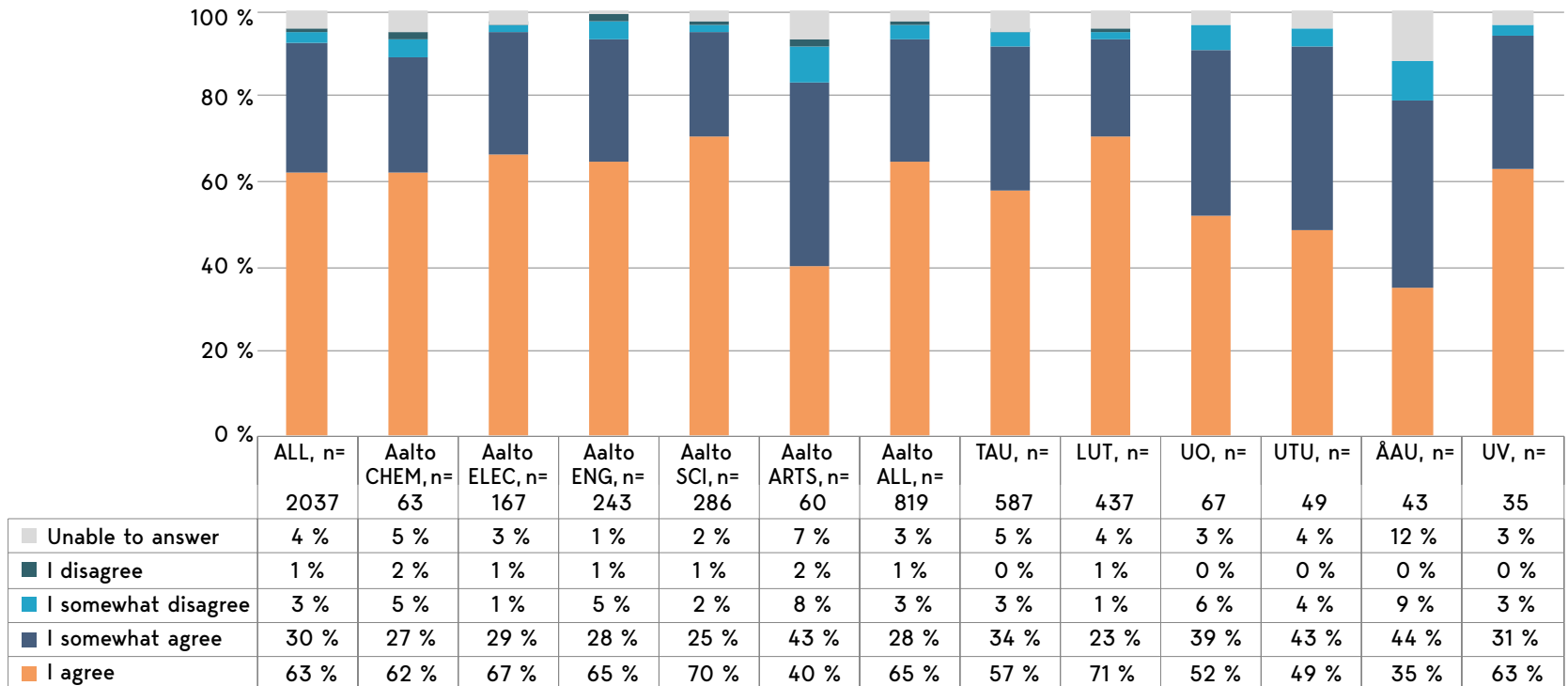
5. Contents of the studies were up-to-date.

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Satisfaction with the studies

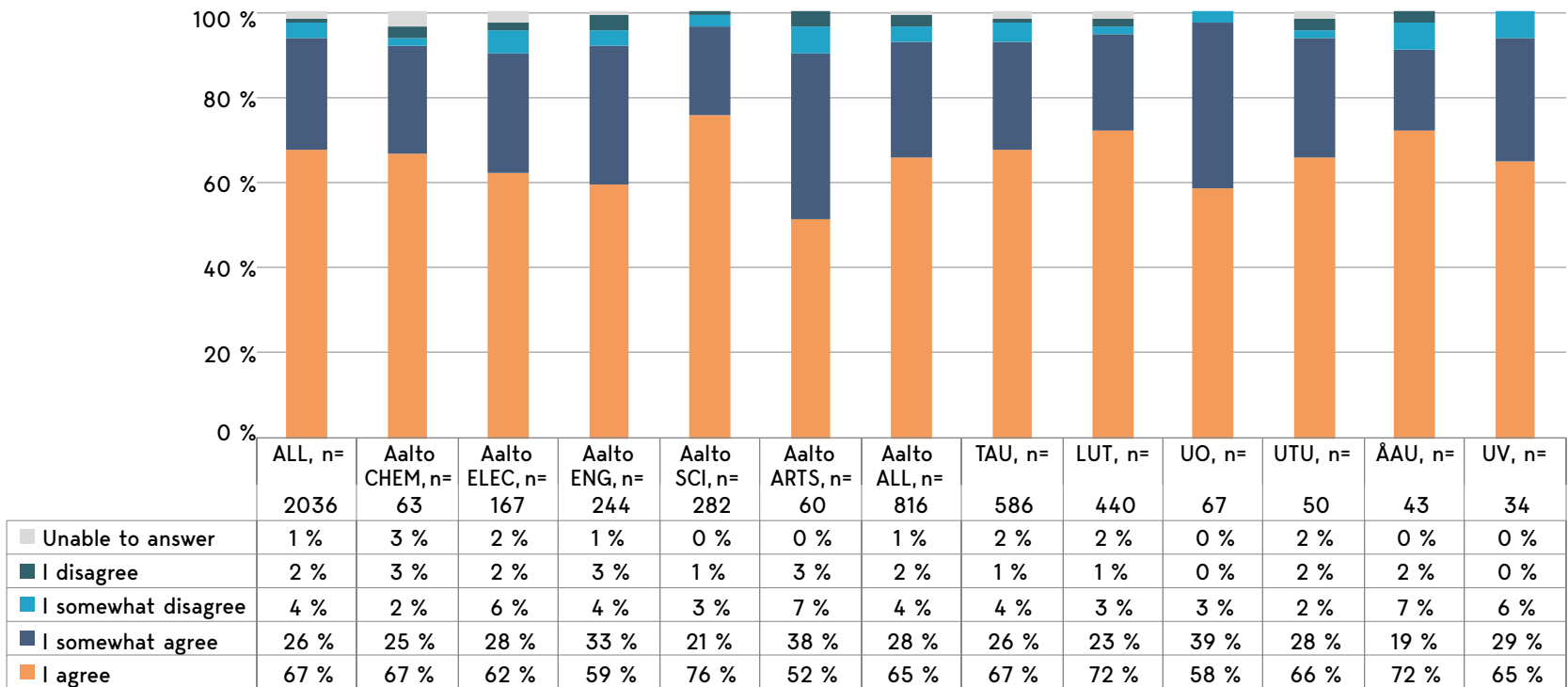
6. Research results from the field were applied to teaching. ©TEK Graduate Survey 2020



Satisfaction with the studies

7. I am satisfied with the education that I have received.

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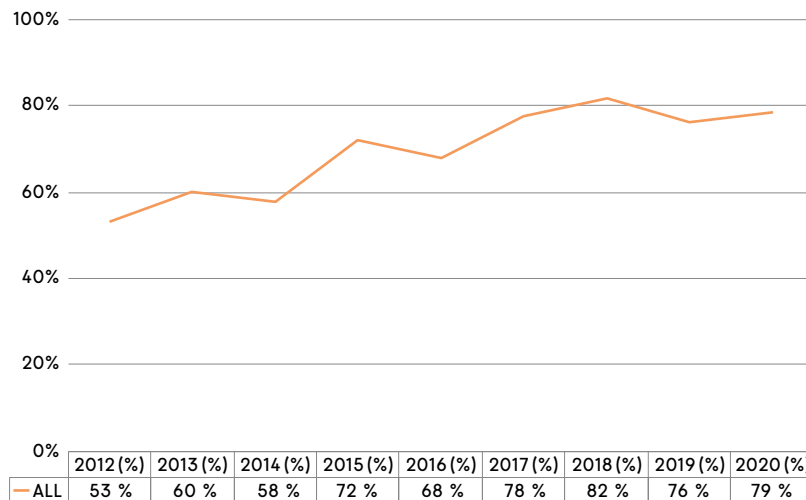


TIME SERIES AND TRENDS

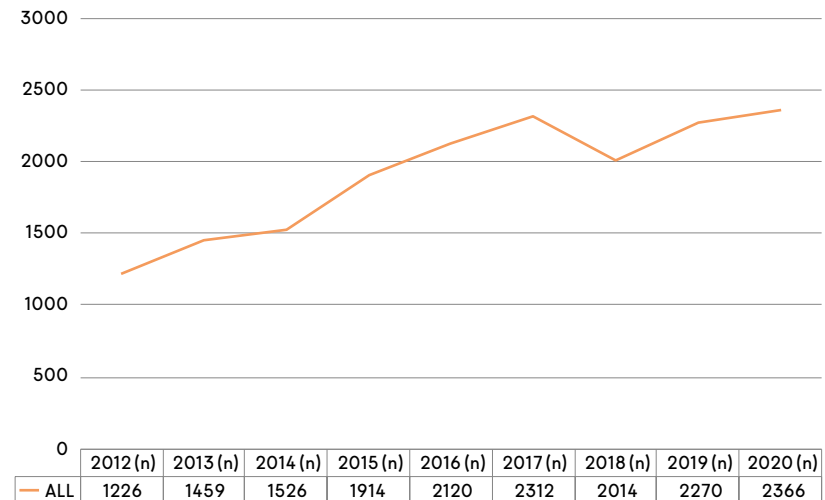
Answers and answer rates

Answers and answer rates

©TEK Graduate Survey 2020



TEK Graduate Survey: Answer rate (%)

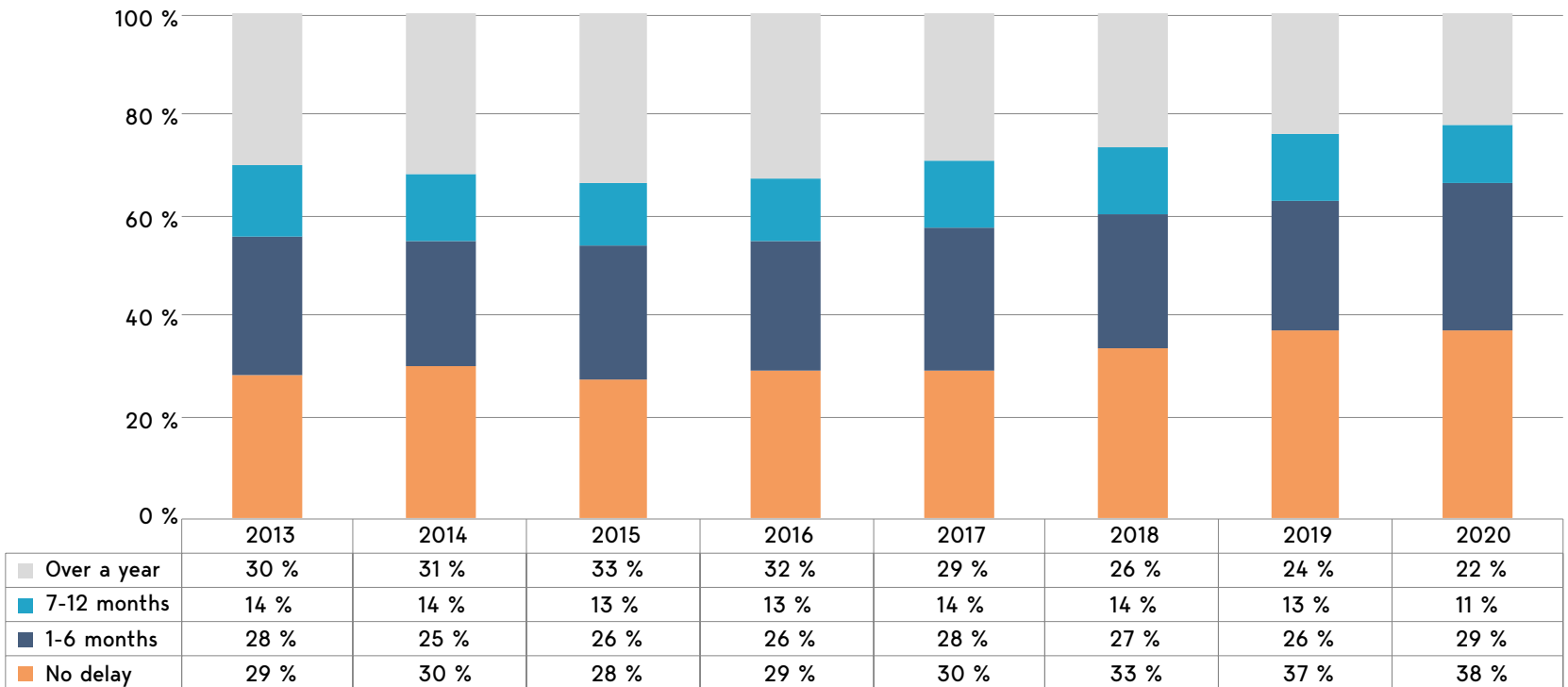


TEK Graduate Survey: Answers (n)

Studies

1. Delays in studies or graduation, amount

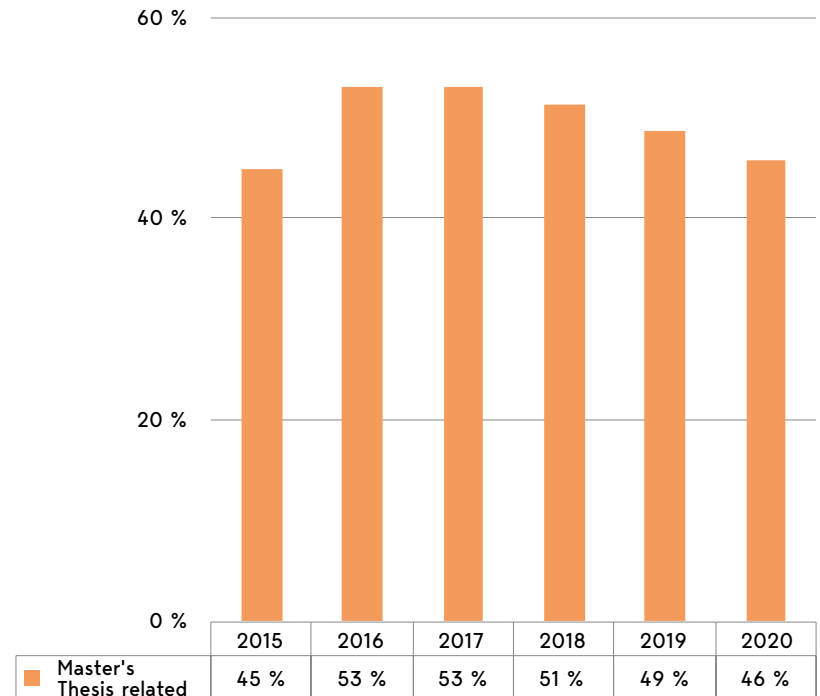
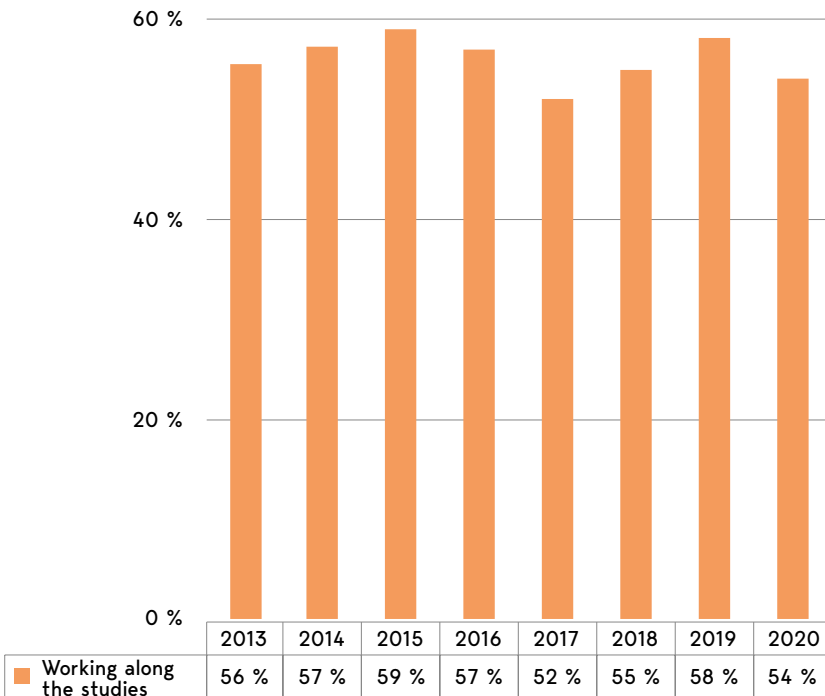
©TEK Graduate Survey 2020



Studies

2. Reasons for the delays among those whose studies were delayed

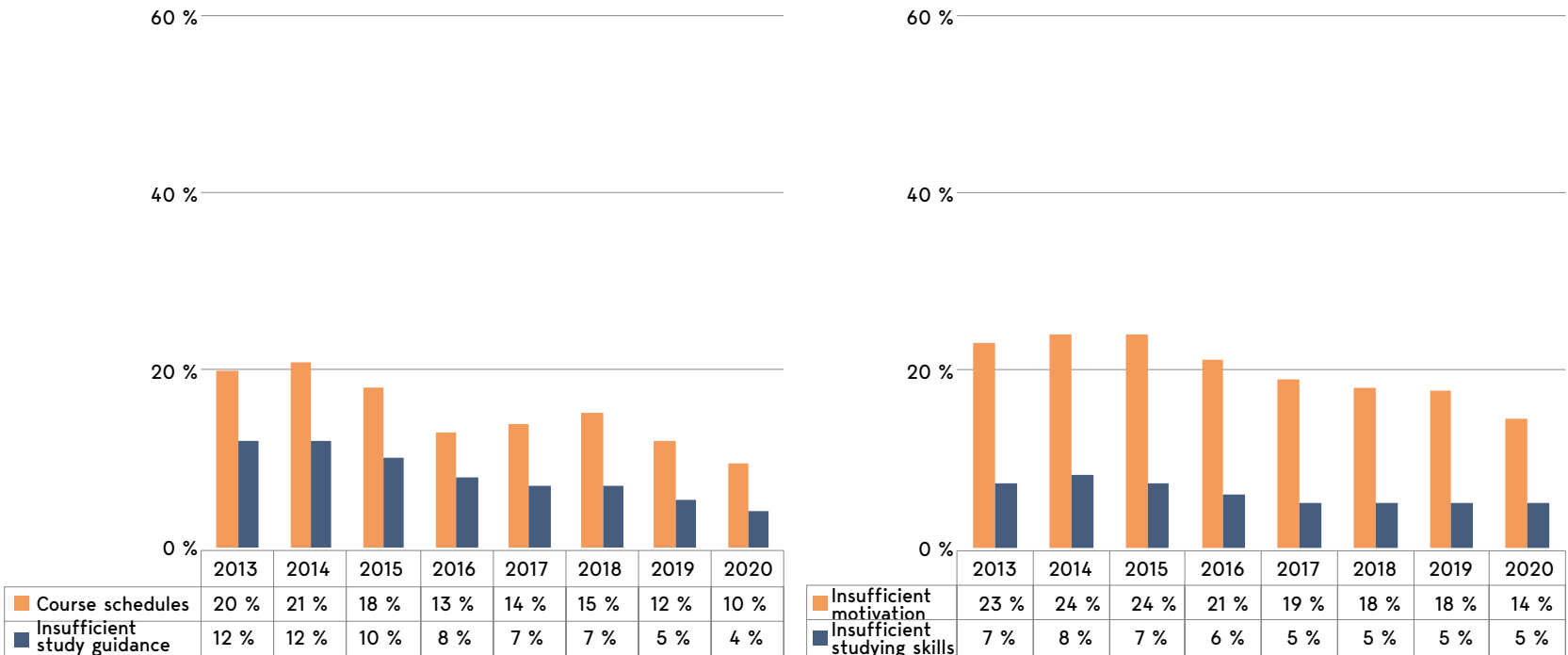
©TEK Graduate Survey 2020



Studies

2. Reasons for the delays among those whose studies were delayed

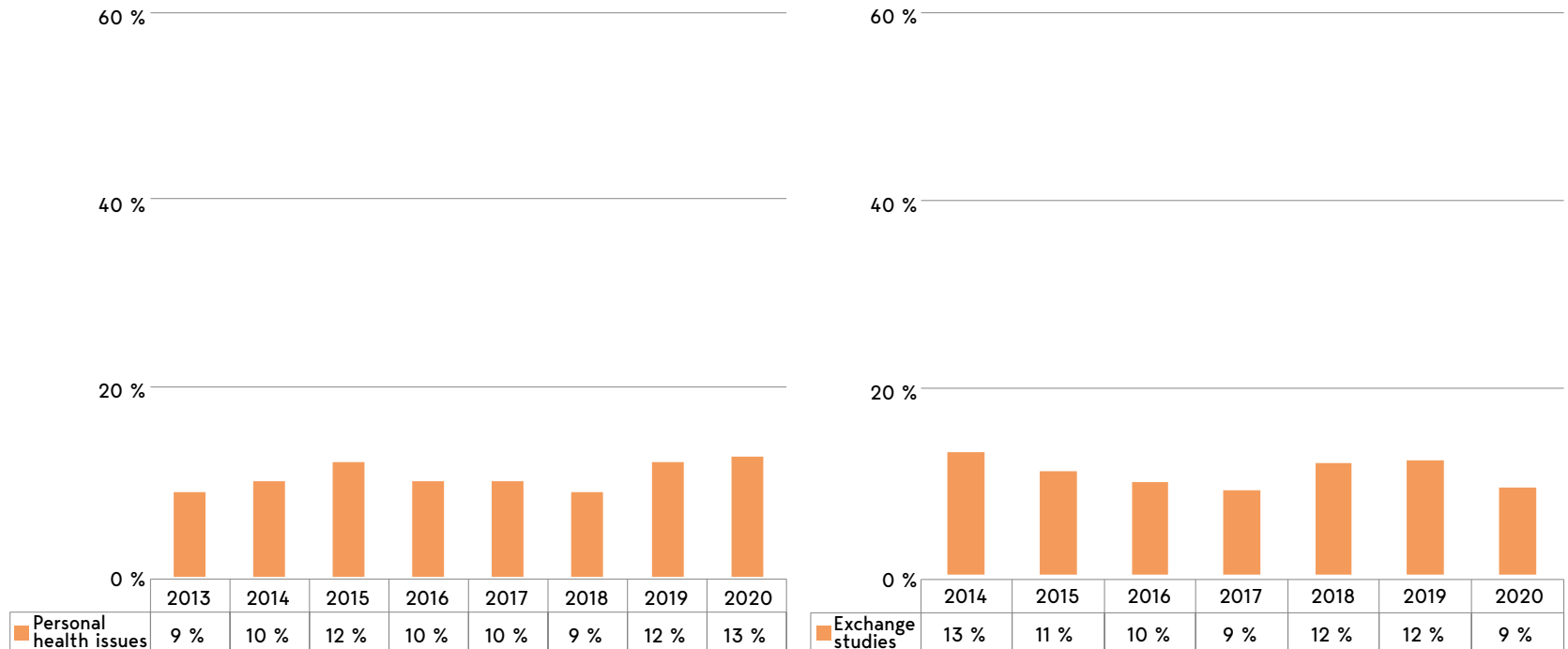
©TEK Graduate Survey 2020



Studies

2. Reasons for the delays among those whose studies were delayed

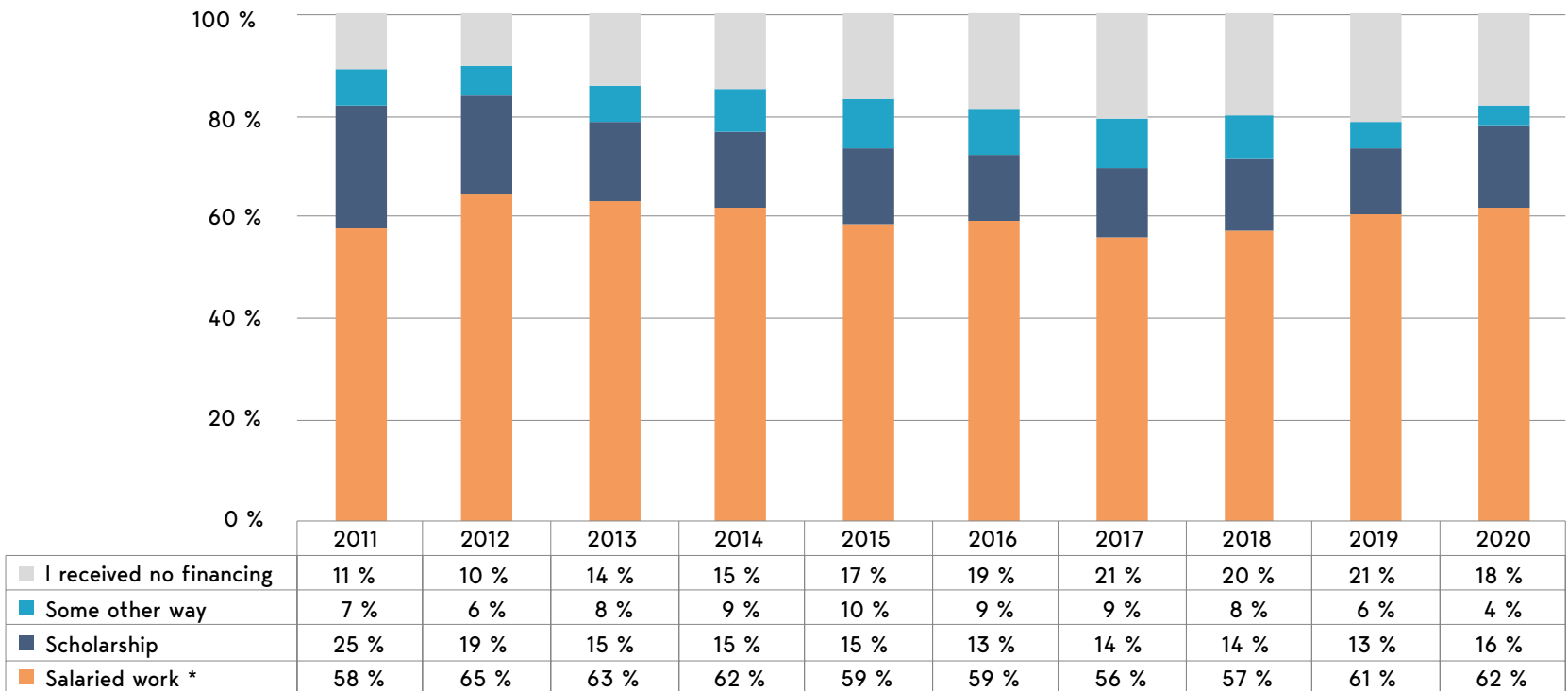
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Master's thesis

Financing of the Master's Thesis

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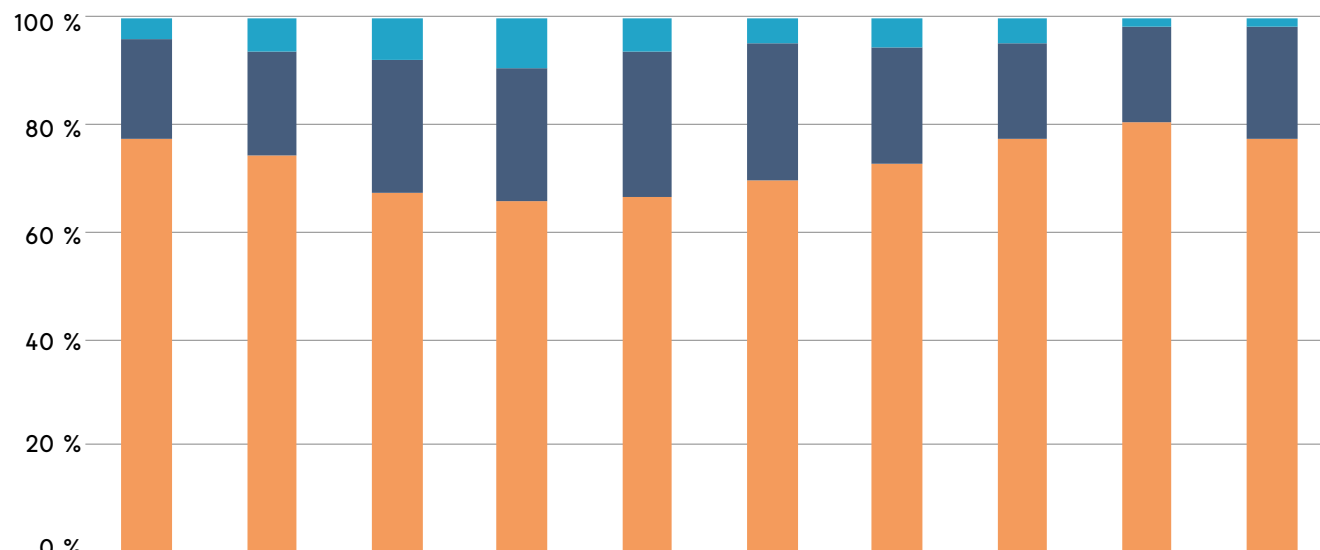


* Including monthly or hourly salary, or permission to use working time for thesis.

Employment

Employment at the time of graduation

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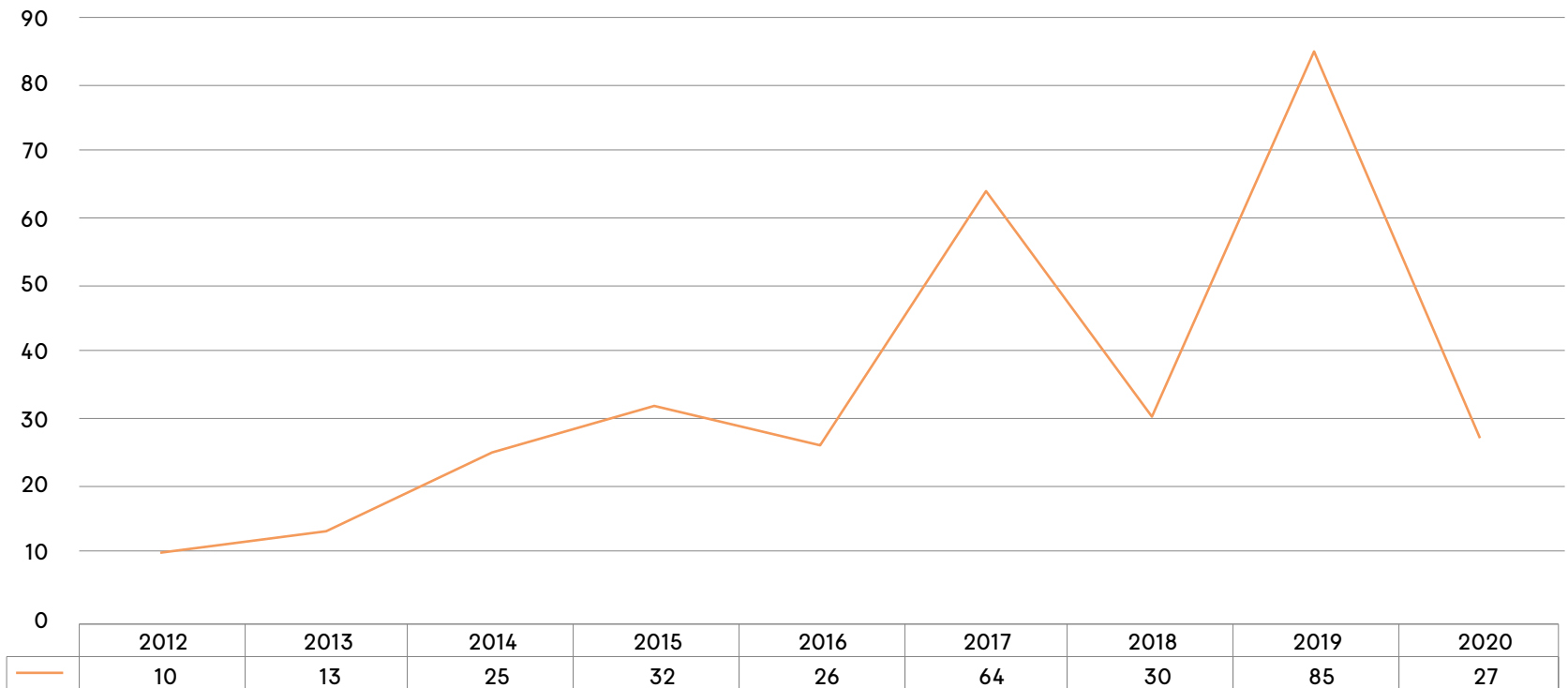


	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Other	4 %	6 %	8 %	9 %	6 %	5 %	5 %	4 %	2 %	2 %
Seeking for a job	18 %	20 %	25 %	25 %	27 %	25 %	21 %	18 %	17 %	20 %
Already employed / Aware of forthcoming employment (incl. Doctoral studies)	78 %	74 %	67 %	66 %	67 %	68 %	71 %	76 %	79 %	76 %

Employment

I'm working as an entrepreneur.

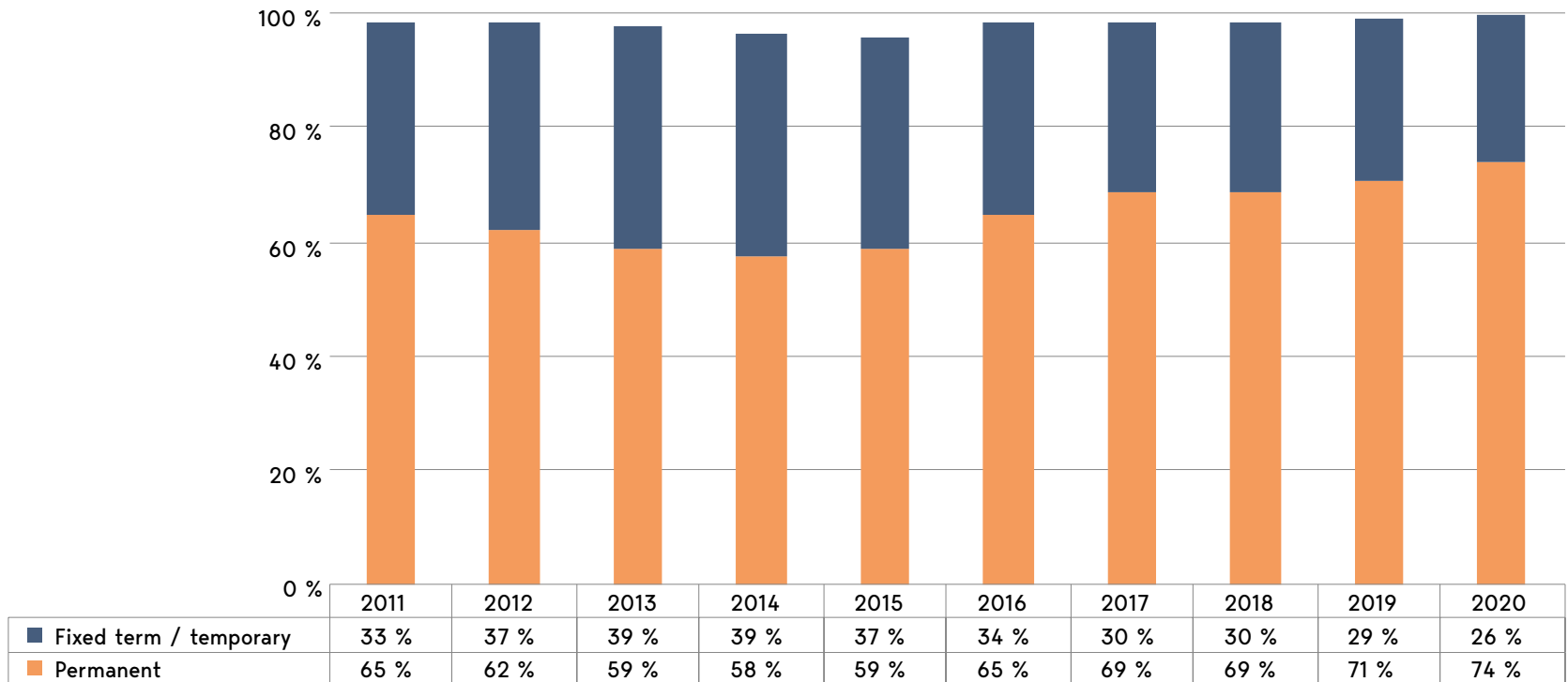
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Type of contract

Type of contract, if employed

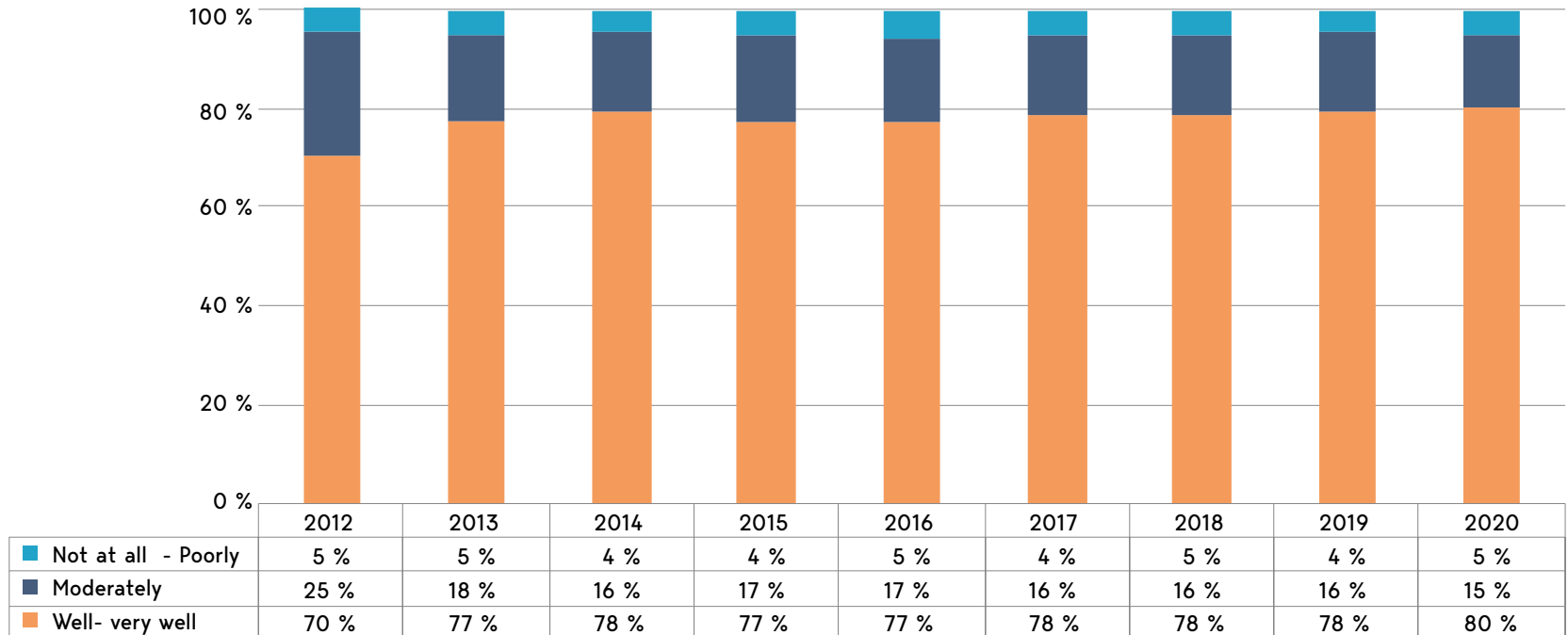
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Quality of employment

How well does the level of demand in your job correspond with your educational level?

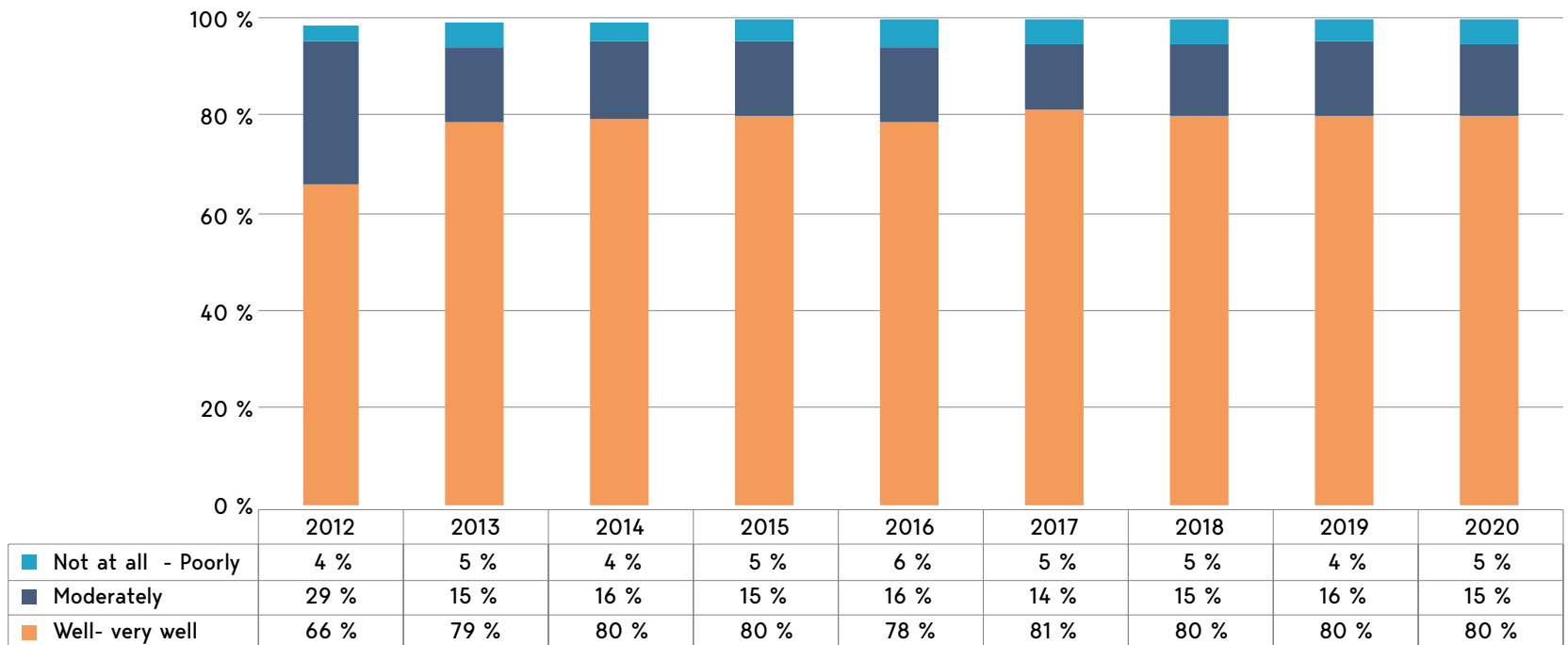
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Quality of employment

How well does the content of your job correspond with your field of studies?

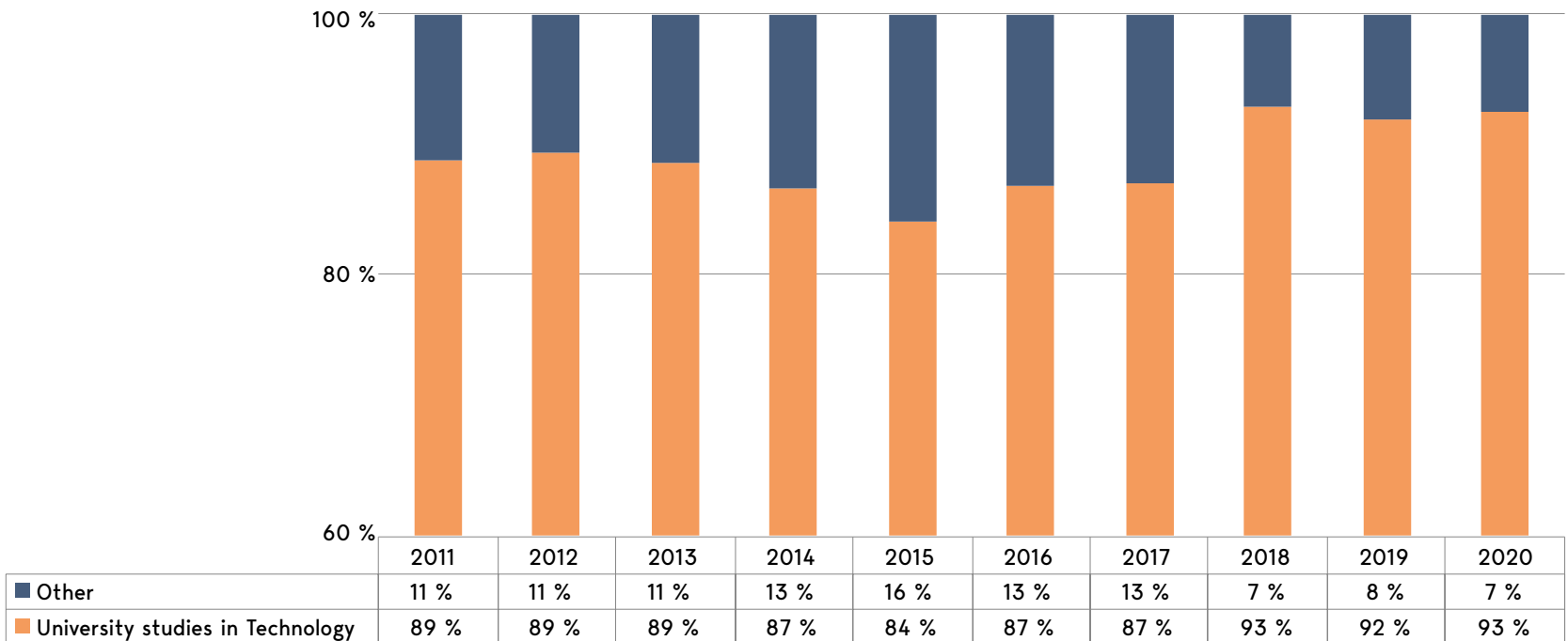
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Reselection

If you could choose again, which line of education would you choose now?

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TEK GRADUATE SURVEY 2020

Academic Engineers and Architects in Finland TEK and Finnish universities in technology together carry out a yearly feedback survey for graduated academic engineers and architects.

The feedback and results are utilized in developing university education and influencing the educational policy making.

More information:

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www.tek.fi/graduate-survey