

Hugverkaiðnaður í vexti

Mannauðs- og færniþörf til næstu ára

Hulda B. Kjærnested Baldursdóttir, verkefnastjóri í mennta- og mannauðsmálum

Nanna Elísa Jakobsdóttir, viðskiptastjóri á iðnaðar- og hugverkasviði

Fjölbreytt hagkerfi – fjölbreytt nýsköpun

Innan hugverkaiðnaðar eru margar ólíkar atvinnugreinar

Djúptækni



Líf- og heilbrigðistækni



Hugbúnaðarþróun



Upplýsingatækni



Lyfjaiðnaður

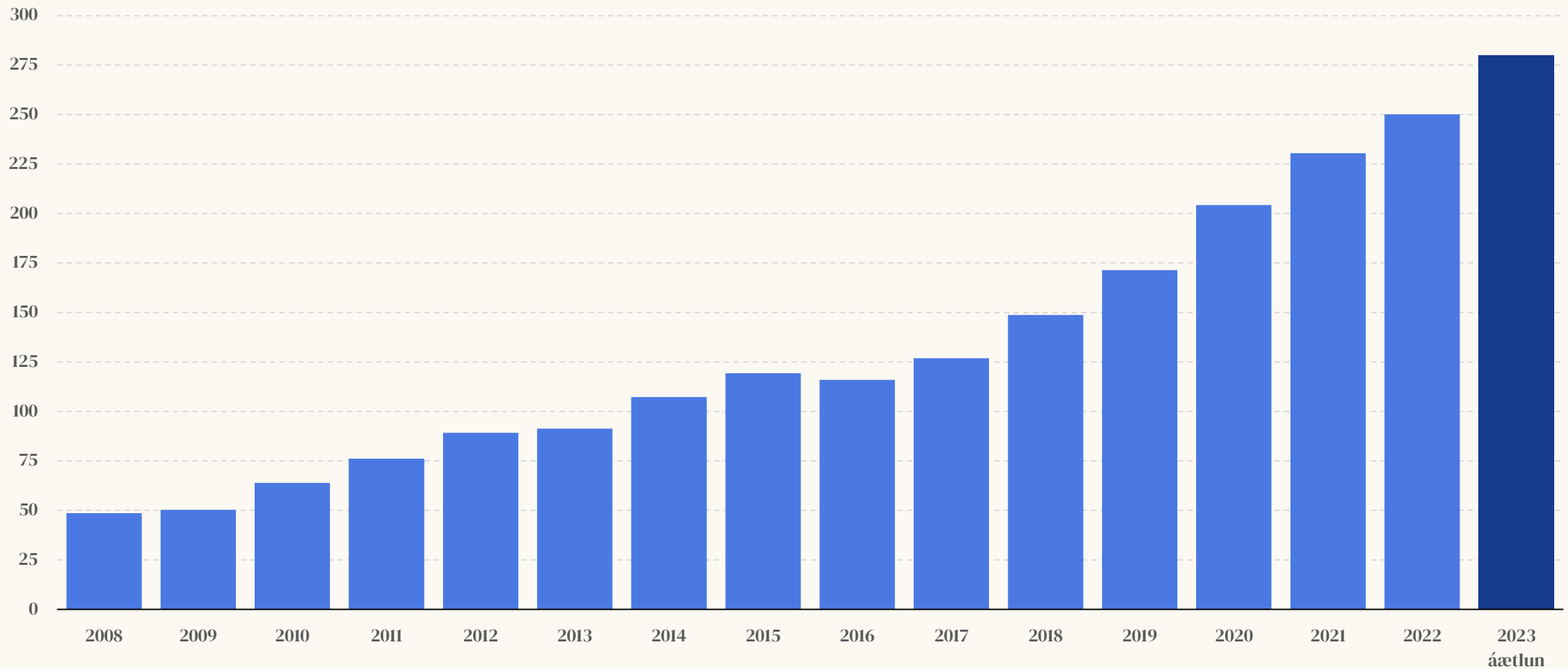


Leikjaiðnaður

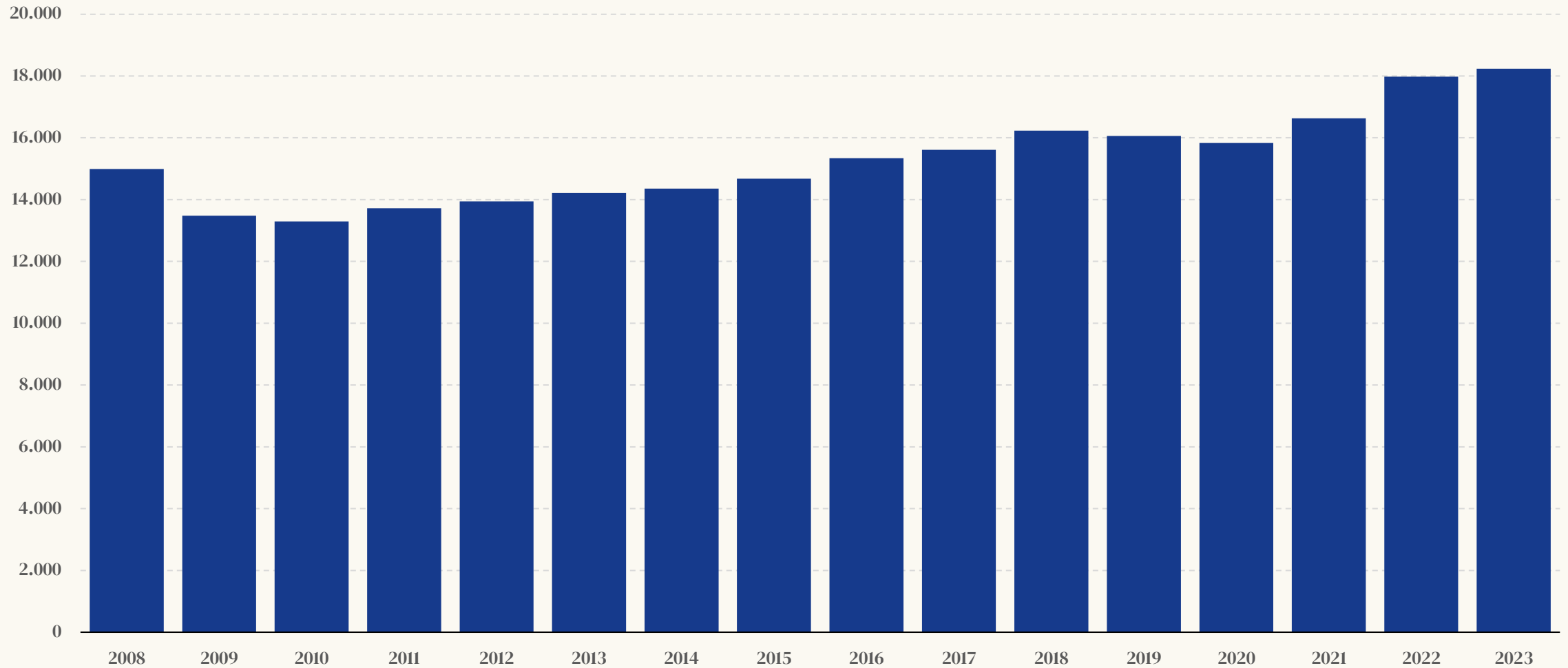


Útflutningstekjur hugverkaiðnaðar

Í milljörðum króna



Meðalfjöldi starfandi í tækni- og hugverkaiðnaði



Niðurstöður spurningakönnunar

Mannauðs- og færniþörf fyrirtækja í hugverkaiðnaði

Hversu marga starfsmenn sérðu fram á að ráða á næstu 5 árum?

Fjöldi starfandi í þeim fyrirtækjum sem svöruðu könnuninni



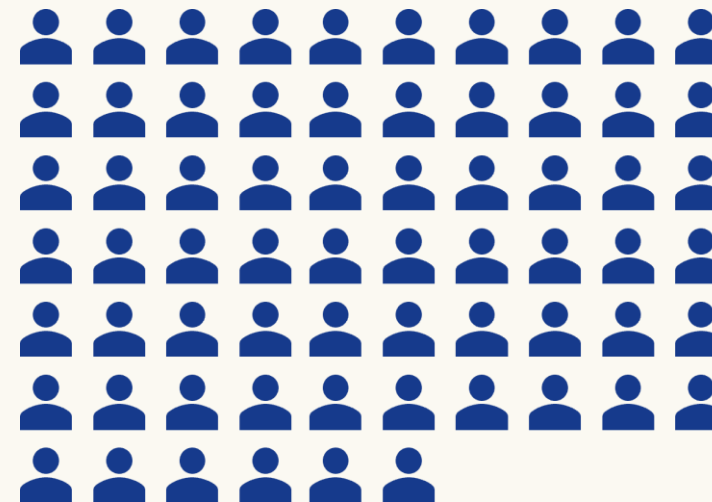
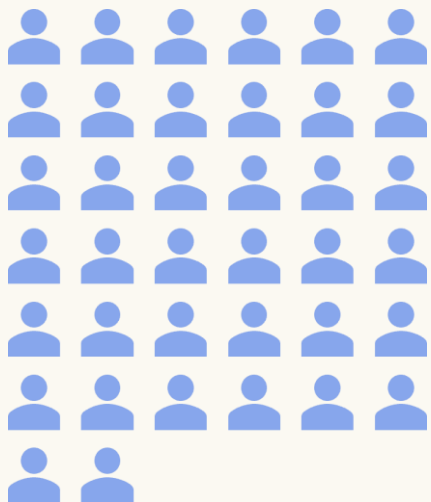
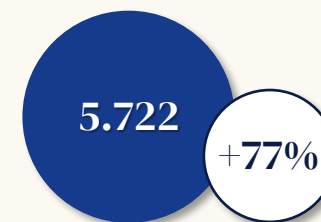
+

Fjölgun starfsmanna á næstu 5 árum

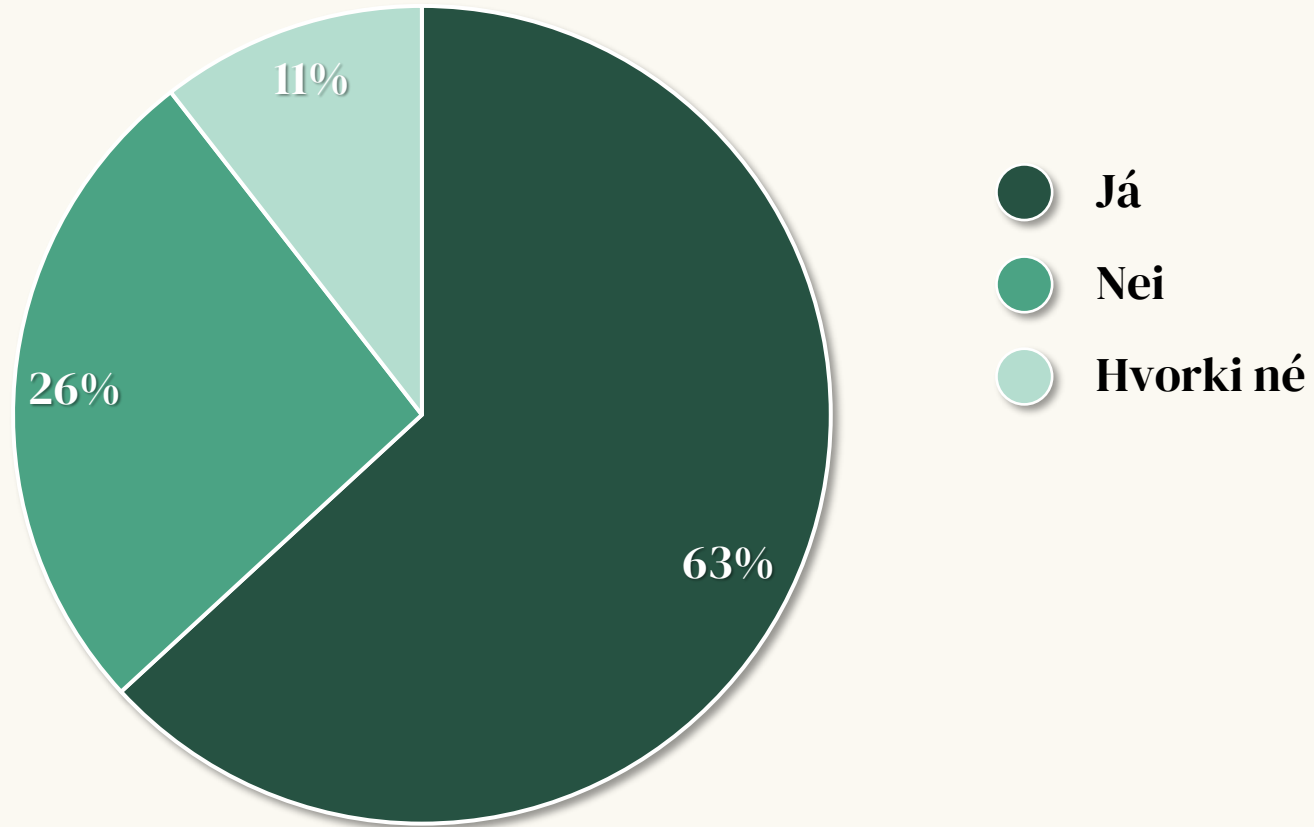


=

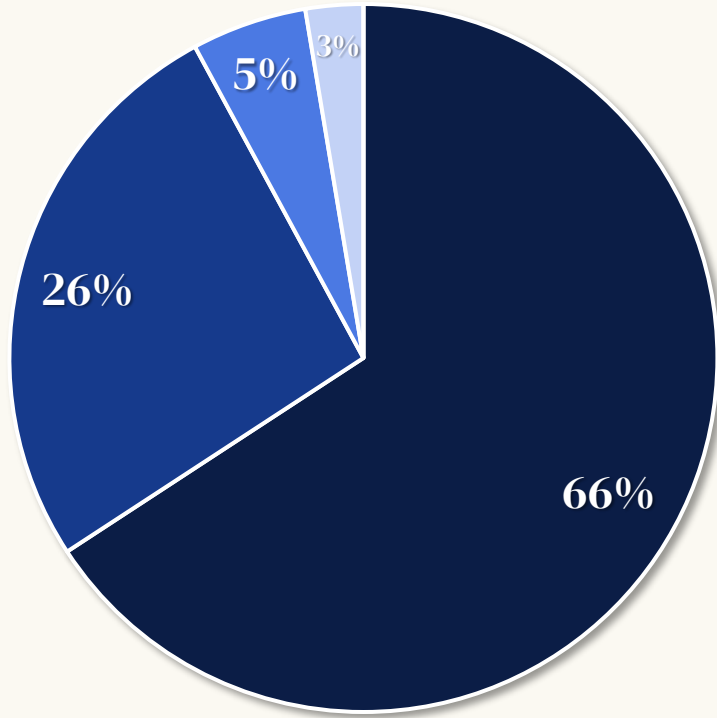
Fjöldi starfandi eftir 5 ár



Hafa erfiðleikar við að finna rétt starfsfólk heft vöxt þíns fyrirtækis?

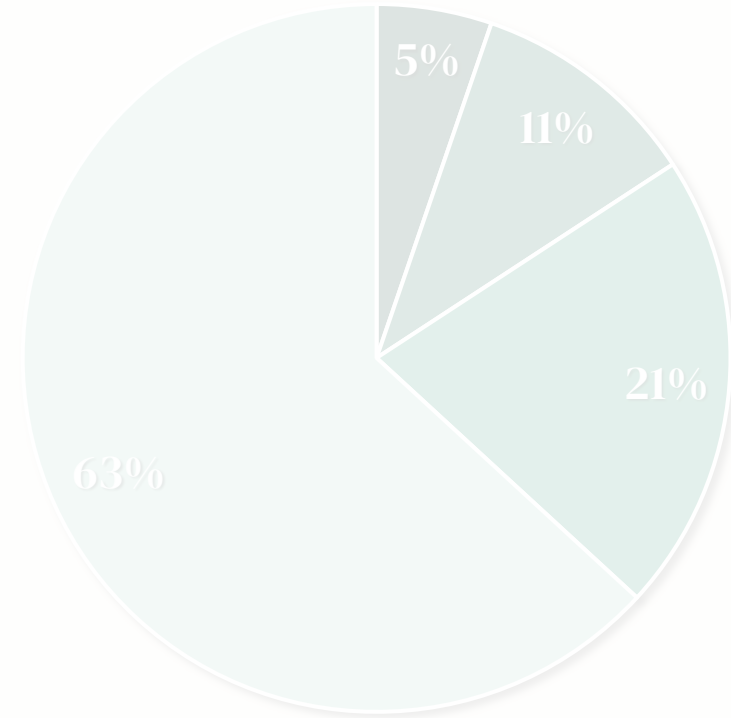


Hversu hátt hlutfall starfsfólks fyrirtækis þíns í dag er sérfræðimenntað?



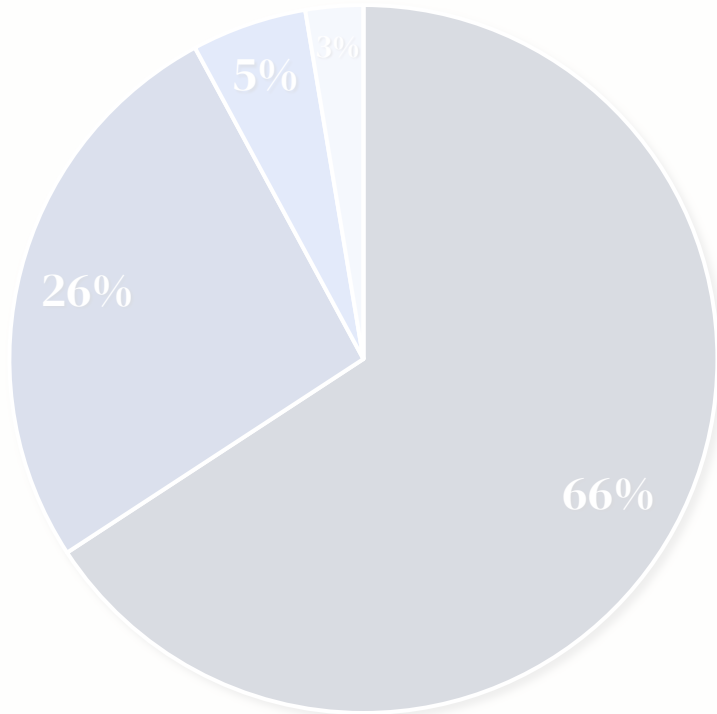
● 81-100% ● 61-80% ● 41-60% ● 21-40%

Hversu hátt hlutfall starfsfólks fyrirtækisins eru erlendir sérfræðingar?



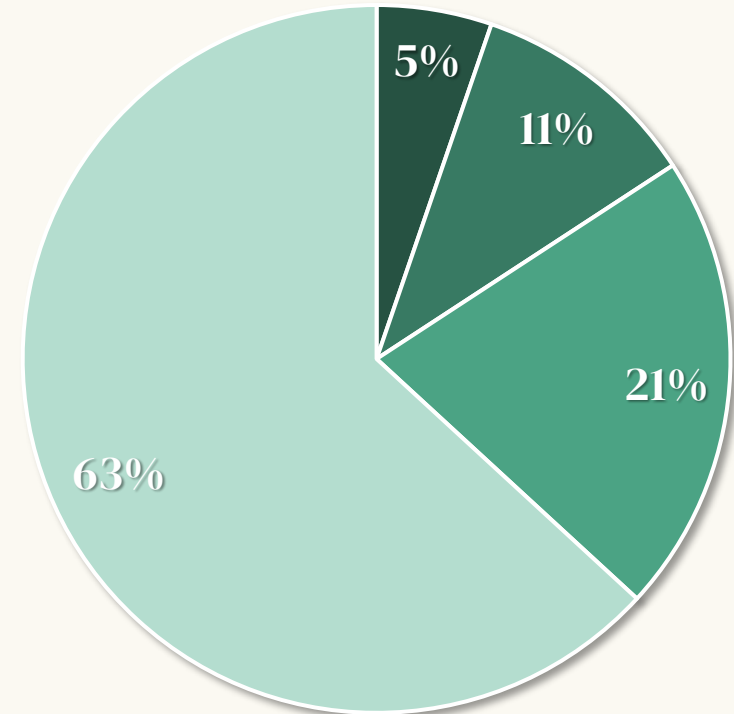
● 61-80% ● 41-60% ● 21-40% ● 0-20%

Hversu hátt hlutfall starfsfólks fyrirtækis þíns í dag er sérfræðimenntað?



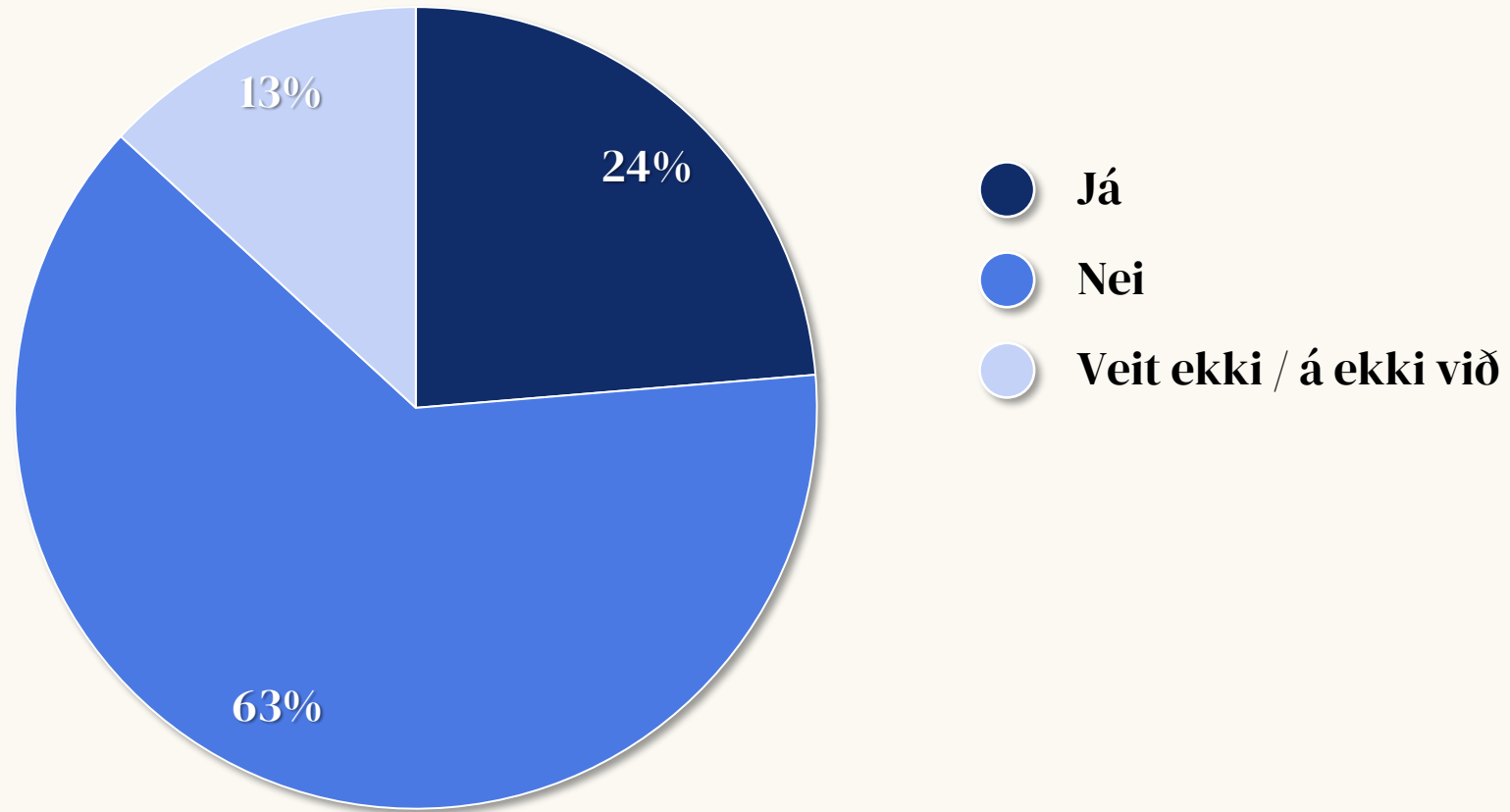
● 81-100% ● 61-80% ● 41-60% ● 21-40%

Hversu hátt hlutfall starfsfólks fyrirtækisins eru erlendir sérfræðingar?



● 61-80% ● 41-60% ● 21-40% ● 0-20%

Telur þú að innlent menntakerfi muni mæta færniþörf þíns fyrirtækis litið til næstu fimm ára?



Global Innovation Index

2018

Human capital & research		46.0	30	◇
2.1	Education	61.1	19	
2.1.1	Expenditure on education, % GDP ^④	7.8	3	←
2.1.2	Government funding/pupil, secondary, % GDP/cap ^④	18.4	56	◇
2.1.3	School life expectancy, years ^④	19.3	4	●
2.1.4	PISA scales in reading, maths & science	480.9	33	◇
2.1.5	Pupil-teacher ratio, secondary	n/a	n/a	
2.2	Tertiary education	33.3	60	
2.2.1	Tertiary enrolment, % gross ^④	75.8	19	
2.2.2	Graduates in science & engineering, % ^④	15.7	77	○◇
2.2.3	Tertiary inbound mobility, % ^④	7.4	30	
2.3	Research & development (R&D)	43.7	24	◇
2.3.1	Researchers, FTE/mn pop.	6,635.1	6	
2.3.2	Gross expenditure on R&D, % GDP	2.1	15	
2.3.3	Global R&D companies, top 3, mn US\$	44.9	32	
2.3.4	QS university ranking, average score top 3*	0.0	78	○◇

2023

Human capital and research		49.0	24	
2.1	Education	70.5	5	
2.1.1	Expenditure on education, % GDP	7.6	6	←
2.1.2	Government funding/pupil, secondary, % GDP/cap	22.3	39	
2.1.3	School life expectancy, years	19.4	5	●
2.1.4	PISA scales in reading, maths and science	481.4	30	
2.1.5	Pupil-teacher ratio, secondary	9.3	22	
2.2	Tertiary education	34.6	49	
2.2.1	Tertiary enrolment, % gross	84.3	19	
2.2.2	Graduates in science and engineering, %	18.2	87	○◇
2.2.3	Tertiary inbound mobility, %	8.5	30	
2.3	Research and development (R&D)	41.9	25	◇
2.3.1	Researchers, FTE/mn pop.	6,875.2	7	
2.3.2	Gross expenditure on R&D, % GDP	2.8	13	
2.3.3	Global corporate R&D investors, top 3, mn US\$	45.9	36	◇
2.3.4	QS university ranking, top 3*	0.0	71	○◇

Global Innovation Index

2018

Human capital & research.....		46.0	30	◇
2.1	Education.....	61.1	19	
2.1.1	Expenditure on education, % GDP ^④	7.8	3	● ◆
2.1.2	Government funding/pupil, secondary, % GDP/cap ^④	18.4	56	◇
2.1.3	School life expectancy, years ^④	19.3	4	◇
2.1.4	PISA scales in reading, maths & science.....	480.9	33	◇
2.1.5	Pupil-teacher ratio, secondary.....	n/a	n/a	
2.2	Tertiary education.....	33.3	60	
2.2.1	Tertiary enrolment, % gross ^④	75.8	19	
2.2.2	Graduates in science & engineering, % ^④	15.7	77	○ ◇
2.2.3	Tertiary inbound mobility, % ^④	7.4	30	
2.3	Research & development (R&D).....	43.7	24	◇
2.3.1	Researchers, FTE/mn pop.....	6,635.1	6	
2.3.2	Gross expenditure on R&D, % GDP.....	2.1	15	
2.3.3	Global R&D companies, top 3, mn US\$.....	44.9	32	
2.3.4	QS university ranking, average score top 3*.....	0.0	78	○ ◇

2023

Human capital and research		49.0	24
2.1 Education		70.5	5
2.1.1	Expenditure on education, % GDP	7.6	6
2.1.2	Government funding/pupil, secondary, % GDP/cap	22.3	39
2.1.3	School life expectancy, years	19.4	5
2.1.4	PISA scales in reading, maths and science	481.4	30
2.1.5	Pupil-teacher ratio, secondary	9.3	22
2.2 Tertiary education		34.6	49
2.2.1	Tertiary enrolment, % gross	84.3	19
2.2.2	Graduates in science and engineering, %	18.2	87 ○ ◇
2.2.3	Tertiary inbound mobility, %	8.5	30
2.3 Research and development (R&D)		41.9	25 ◇
2.3.1	Researchers, FTE/mn pop.	6,875.2	7
2.3.2	Gross expenditure on R&D, % GDP	2.8	13
2.3.3	Global corporate R&D investors, top 3, mn US\$	45.9	36 ◇
2.3.4	QS university ranking, top 3*	0.0	71 ○ ◇

Global Innovation Index

2018

Human capital & research.....		46.0	30	◇
2.1	Education.....	61.1	19	
2.1.1	Expenditure on education, % GDP ^④	7.8	3	●◆
2.1.2	Government funding/pupil, secondary, % GDP/cap ^④	18.4	56	◇
2.1.3	School life expectancy, years ^④	19.3	4	●
2.1.4	PISA scales in reading, maths & science.....	480.9	33	←
2.1.5	Pupil-teacher ratio, secondary.....	n/a	n/a	
2.2	Tertiary education.....	33.3	60	
2.2.1	Tertiary enrolment, % gross ^④	75.8	19	
2.2.2	Graduates in science & engineering, % ^④	15.7	77	○◇
2.2.3	Tertiary inbound mobility, % ^④	7.4	30	
2.3	Research & development (R&D).....	43.7	24	◇
2.3.1	Researchers, FTE/mn pop.....	6,635.1	6	
2.3.2	Gross expenditure on R&D, % GDP.....	2.1	15	
2.3.3	Global R&D companies, top 3, mn US\$.....	44.9	32	
2.3.4	QS university ranking, average score top 3*.....	0.0	78	○◇

2023

Human capital and research		49.0	24
2.1	Education	70.5	5
2.1.1	Expenditure on education, % GDP	7.6	6
2.1.2	Government funding/pupil, secondary, % GDP/cap	22.3	39
2.1.3	School life expectancy, years	19.4	5
2.1.4	PISA scales in reading, maths and science	481.4	30
2.1.5	Pupil-teacher ratio, secondary	9.3	22
2.2	Tertiary education	34.6	49
2.2.1	Tertiary enrolment, % gross	84.3	19
2.2.2	Graduates in science and engineering, %	18.2	87
2.2.3	Tertiary inbound mobility, %	8.5	30
2.3	Research and development (R&D)	41.9	25
2.3.1	Researchers, FTE/mn pop.	6,875.2	7
2.3.2	Gross expenditure on R&D, % GDP	2.8	13
2.3.3	Global corporate R&D investors, top 3, mn US\$	45.9	36
2.3.4	QS university ranking, top 3*	0.0	71

Global Innovation Index

2018

Human capital & research.....		46.0	30	◇
2.1	Education.....	61.1	19	
2.1.1	Expenditure on education, % GDP ^④	7.8	3	●◆
2.1.2	Government funding/pupil, secondary, % GDP/cap ^④	18.4	56	◇
2.1.3	School life expectancy, years ^④	19.3	4	●
2.1.4	PISA scales in reading, maths & science.....	480.9	33	◇
2.1.5	Pupil-teacher ratio, secondary.....	n/a	n/a	
2.2	Tertiary education.....	33.3	60	
2.2.1	Tertiary enrolment, % gross ^④	75.8	19	
2.2.2	Graduates in science & engineering, % ^④	15.7	77	
2.2.3	Tertiary inbound mobility, % ^④	7.4	30	
2.3	Research & development (R&D).....	43.7	24	◇
2.3.1	Researchers, FTE/mn pop.....	6,635.1	6	
2.3.2	Gross expenditure on R&D, % GDP.....	2.1	15	
2.3.3	Global R&D companies, top 3, mn US\$.....	44.9	32	
2.3.4	QS university ranking, average score top 3*.....	0.0	78	○◇

2023

Human capital and research		49.0	24
2.1	Education	70.5	5
2.1.1	Expenditure on education, % GDP	7.6	6
2.1.2	Government funding/pupil, secondary, % GDP/cap	22.3	39
2.1.3	School life expectancy, years	19.4	5
2.1.4	PISA scales in reading, maths and science	481.4	30
2.1.5	Pupil-teacher ratio, secondary	9.3	22
2.2	Tertiary education	34.6	49
2.2.1	Tertiary enrolment, % gross	84.3	19
2.2.2	Graduates in science and engineering, %	18.2	87
2.2.3	Tertiary inbound mobility, %	8.5	30
2.3	Research and development (R&D)	41.9	25
2.3.1	Researchers, FTE/mn pop.	6,875.2	7
2.3.2	Gross expenditure on R&D, % GDP	2.8	13
2.3.3	Global corporate R&D investors, top 3, mn US\$	45.9	36
2.3.4	QS university ranking, top 3*	0.0	71

Hvaða sérfræðipekkingu vantar helst í fyrirtækið þitt á næstu fimm árum?

Sérfræðingur í gagnagrunnum

Gagnavísindi Öryggissérfræðingur Véltaeknifræði

Lyfjafræði Mekatróník Leikjaprófarar Líffræði Stafræn vörubrún

Hljóðvinnsla Gæðastjórnun Rafmagnsverkfræði

Greinendur á notendahegðun Líftækni Tölvuleikjaforritun Tölvunarfræði

Gagnavinnsla Efnaverkfræði Ljósfræði QA

Gervigreindarsérfræðingar Hugbúnaðargerð

Upplýsingatækni Viðmótshönnun Sérfræðingur í umhverfismálum

Devops Gagnaöryggi

Tæknilegur listamaður

Hulda, hulda@si.is
Nanna, nanna@si.is

