YouGov / Text 100 Survey Results



Sample Size: 307 Senior managers in industries

that hire STEM graduates

Fieldwork: 28th August - 9th September 2013

Sample Size: 24 Academics Working in a STEM

subject

Fieldwork: 2nd - 16th September 2013

Managers Academics

Unweighted Sample

Which, if any of the following countries do you think have the best STEM (Science, Technology, Engineering and Maths) graduates? Please select up to three.

51 75		Germany
47 38		UK
37 33	;	USA
23 25	:	India
22 17	:	China
8 13		Sweden
7 13		The Netherlands
6 4		Finland
4 4		Denmark
3 4		Norway
0 0		None of these countries have good STEM graduates
17 17		Don't know

Thinking now about graduates from STEM subjects (Science, Technology, Engineering and Maths), would you say that there are or are not enough skilled candidates from UK universities to meet your company's requirements?

There are enough skille	d candidates	32	4
There are NOT enough skille	d candidates	59	79
	Don't know	9	17

What are the main reasons for the STEM skills gap in the UK? Please tick all that apply.

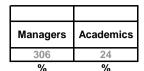
[All those who think there is a STEM skills gan n

		All those who think there is a STEM skills gap
		n=182]
53 5	ates 53	We do not have enough STEM grad
52 4	emia 52	There is not enough collaboration between inc
	rther	Investment in the teaching of STEM in Fu
51 3	as in 51	Education and Higher Education is not as high
	tries	other cou
	ning	There is not enough focus on project-based lea
40 2	and 40	during secondary school, Further Educatio
	ation	Higher Educ
32 1	logy	Students do not have enough access to techn
32 1	ustry 32	that is used in inc
30 1	h as	The calibre of students / graduates is not as hi
30 1	tries	it is in other cou
30 1	other	The calibre of teaching is not as high as it is in
30 I	tries	cou
18 1	ough 18	The base of students is not diverse er
15 2	ason 15	Another re
1 1	now 1	Don't



subject

Fieldwork: 2nd - 16th September 2013



How long do you think it will take to close the skills gap in STEM?

Unweighted Sample

[All those who think there is a STEM skills gap n=182]

Less than ten years	25	5
10 to 19 years	39	53
20 to 29 years	6	5
Longer than 30 years	3	5
The STEM skills gap will never be closed	13	5
Don't know	14	26

Thinking about the skills gap in relation to the UK economy, which statement most closely reflects your view?

[All those who think there is a STEM skills gap n=182]

89	83	The STEM skills gap needs to be bridged in order for the UK to be competitive in the world economy
5	4	We do not need to bridge the UK STEM skills gap as it is already being filled by overseas graduates
5	9	The STEM skills gap in the UK exists but is over- stated
0	2	None of these
0	2	Don't know

Project-based learning is a teaching and learning approach that engages students in the investigation of science and real world engineering problems.

When thinking about project-based learning in STEM subjects to what extent do you agree or disagree with the following statements?

It is impossible for STEM students to reach their potential without project-based learning

Strongly agree	15	8
Tend to agree	41	29
TOTAL AGREE	56	37
Neither agree nor disagree	29	25
Tend to disagree	13	21
Strongly disagree	2	17
TOTAL DISAGREE	15	38

There needs to be more project-based learning in STEM subjects

Strongly agree	17	13
Tend to agree	44	21
TOTAL AGREE	61	34
Neither agree nor disagree	32	42
Tend to disagree	6	21
Strongly disagree	0	4
TOTAL DISAGREE	6	25

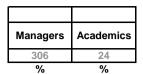
Project-based learning needs to be built into the curriculum at secondary school to encourage the best STEM students to continue their studies

Strongly agree Tend to agree	23 51	13 29
TOTAL AGREE	74	42
Neither agree nor disagree	20	33
Tend to disagree	6	21
Strongly disagree	1	4
TOTAL DISAGREE	7	25



subject

Fieldwork: 2nd - 16th September 2013



It is important for industries to have STEM
graduates that are well-versed in project-based
learning

Unweighted Sample

Stro	ongly agree 2	2 13
Tei	nd to agree 5	2 46
TOTA	AL AGREE 7	4 59
Neither agree n	or disagree 2	1 25
Tend	to disagree	1 13
Strong	lly disagree () 4
TOTAL D	DISAGREE	17

Project-based learning helps develop skills needed for future careers such as critical thinking, problem solving and collaboration

Strongly agre	e 30	25
Tend to agre	e 48	54
TOTAL AGRE	E 78	79
Neither agree nor disagre	e 16	13
Tend to disagre	e 6	8
Strongly disagre	e 0	0
TOTAL DISAGRE	E 6	8

There is too much project-based learning in STEM subjects

0
17
17
29
42
13
55

STEM subjects should focus more on academic learning over project-based learning

Strongly agree Tend to agree	7 22	13 25
TOTAL AGREE	29	38
Neither agree nor disagree	38	42
Tend to disagree	29	21
Strongly disagree	5	0
TOTAL DISAGREE	34	21

Thinking about STEM students in further education and universities, do you think they do or do not have enough access to hardware as part of their learning?

STEM students in the UK do have enough access to hardware as part of their learning	30	33
STEM students in the UK do NOT have enough access to hardware as part of their learning	35	29
Don't know	35	38

And would you say that learning how to work with hardware is or is not integrated into the curriculum?

42	24	into curriculum
38	38	Learning how to work with hardware is NOT integrated into curriculum
21	38	Don't know

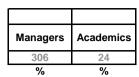


Fieldwork: 28th August - 9th September 2013

Sample Size: 24 Academics Working in a STEM

subject

Fieldwork: 2nd - 16th September 2013



Unweighted Sample

Education in the UK?		
Industry should make a greater investment and have a greater say in the shape of the STEM curriculum in the UK	63	46
Industry should maintain the level of investment and say it already has in the STEM curriculum in the UK	26	33
Industry should have less investment and have less of a say in the shape of the STEM curriculum in the UK	2	8
Don't know	9	13

You mentioned that you think industry should make a greater investment and have a greater say in the shape of the STEM curriculum in the UK. How should industry make a greater investment in the STEM curriculum / preparing students?

[All those who think industry should have greater involvement n=1941

		monoment n=104j
100	88	Provide workplace experiences to students in STEM subjects
82	74	Collaborate more closely with academia in curriculum development
73	70	Provide experts to give guest talks at schools and universities
64	45	Provide equipment in educational institutions
0	33	Publish its own curriculum for the STEM subjects outlining what students should learn
0 0	2 1	Something else Don't know

