



THE UNIVERSITY of EDINBURGH
Careers Service

Planning your career: **After Your Maths MSc**

Matt Vickers

Careers Consultant

Schools of Engineering & Mathematics



Aims & objectives

- Introducing career planning
- Review what some MSc graduates do
- Explain how recruitment works in the UK
- Visas
- Overseas recruitment
- Describe how the Careers Service can help



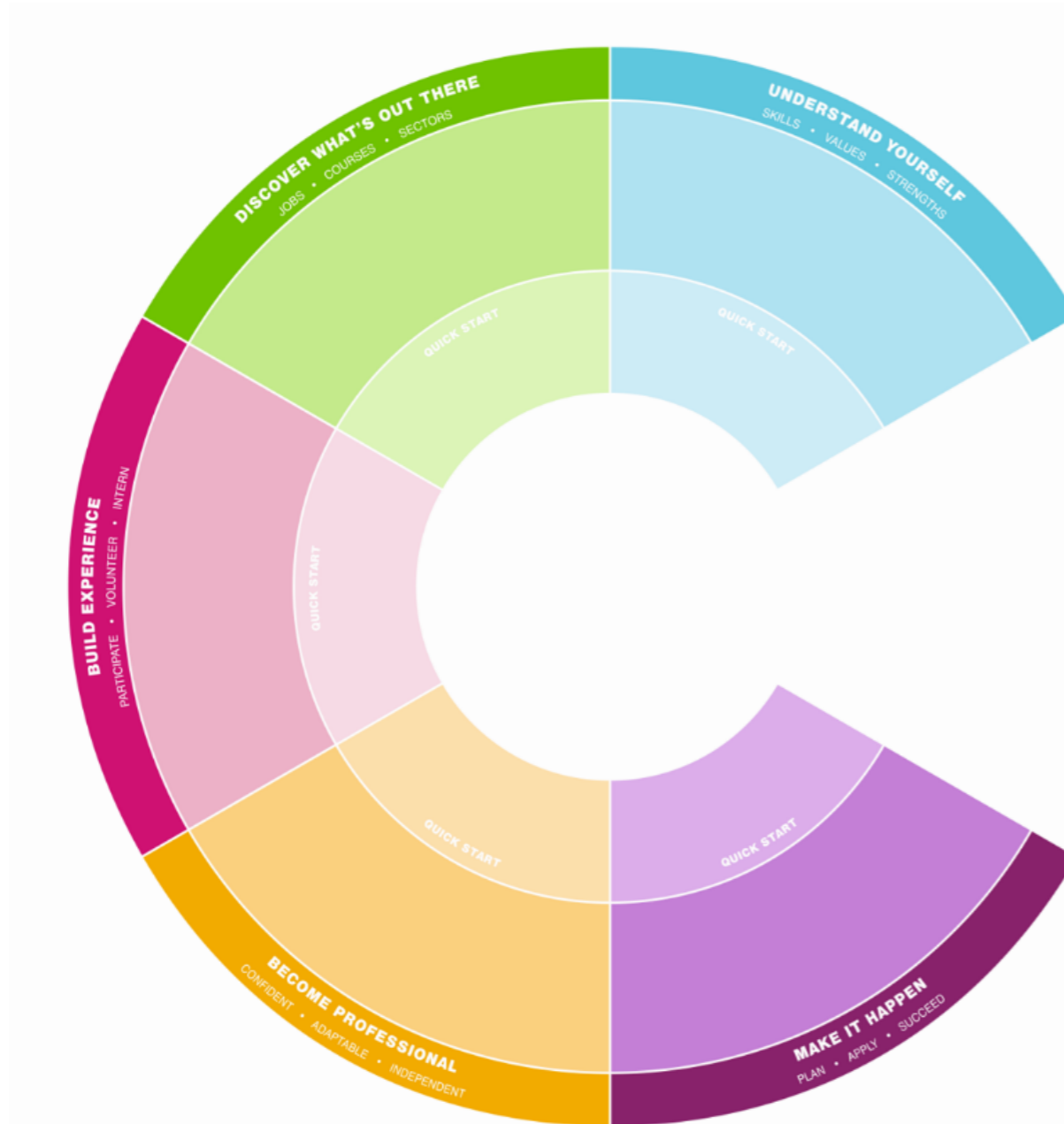
Career planning *process* – a model



“DOTS Model”, Law & Watts (1977)



Careers Compass – chart your progress

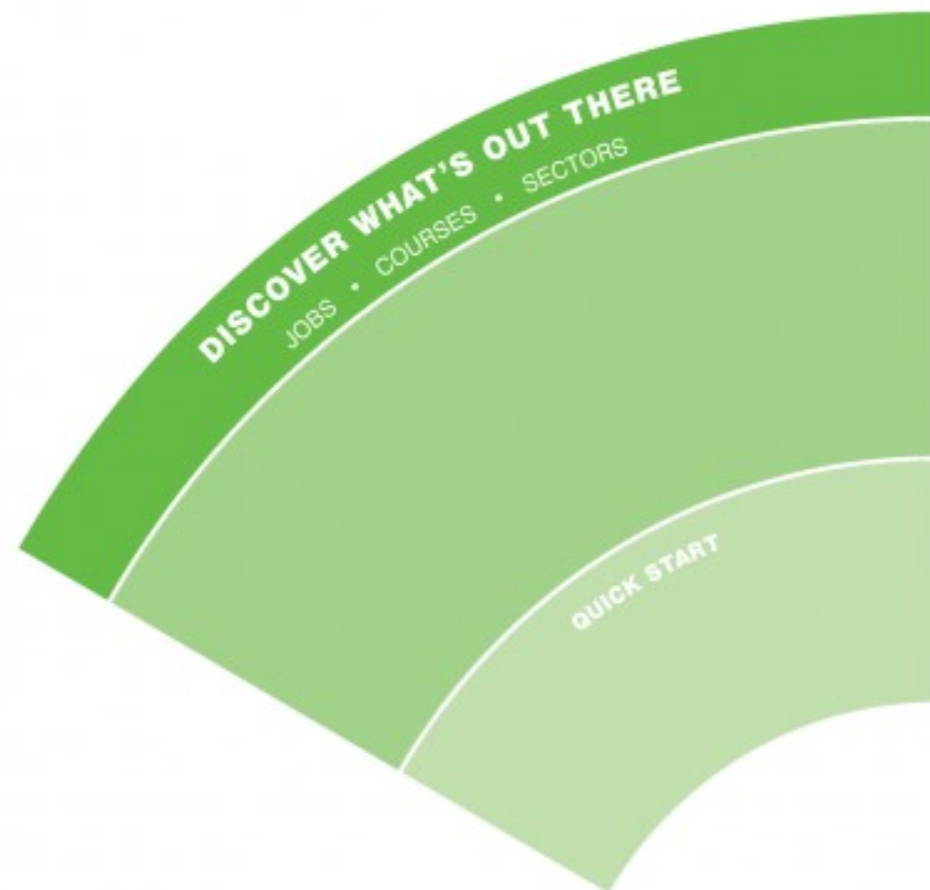


- **Understand yourself** – skills, values, strengths
- **Discover what's out there** – jobs, courses, sectors
- **Build experience** – participate, volunteer, intern
- **Become professional** – confident, adaptable, independent
- **Make it happen** – plan, apply, succeed



Of most interest?

**Discover what's out there:
jobs, courses, sectors**



**Make it happen: plan,
apply, succeed**

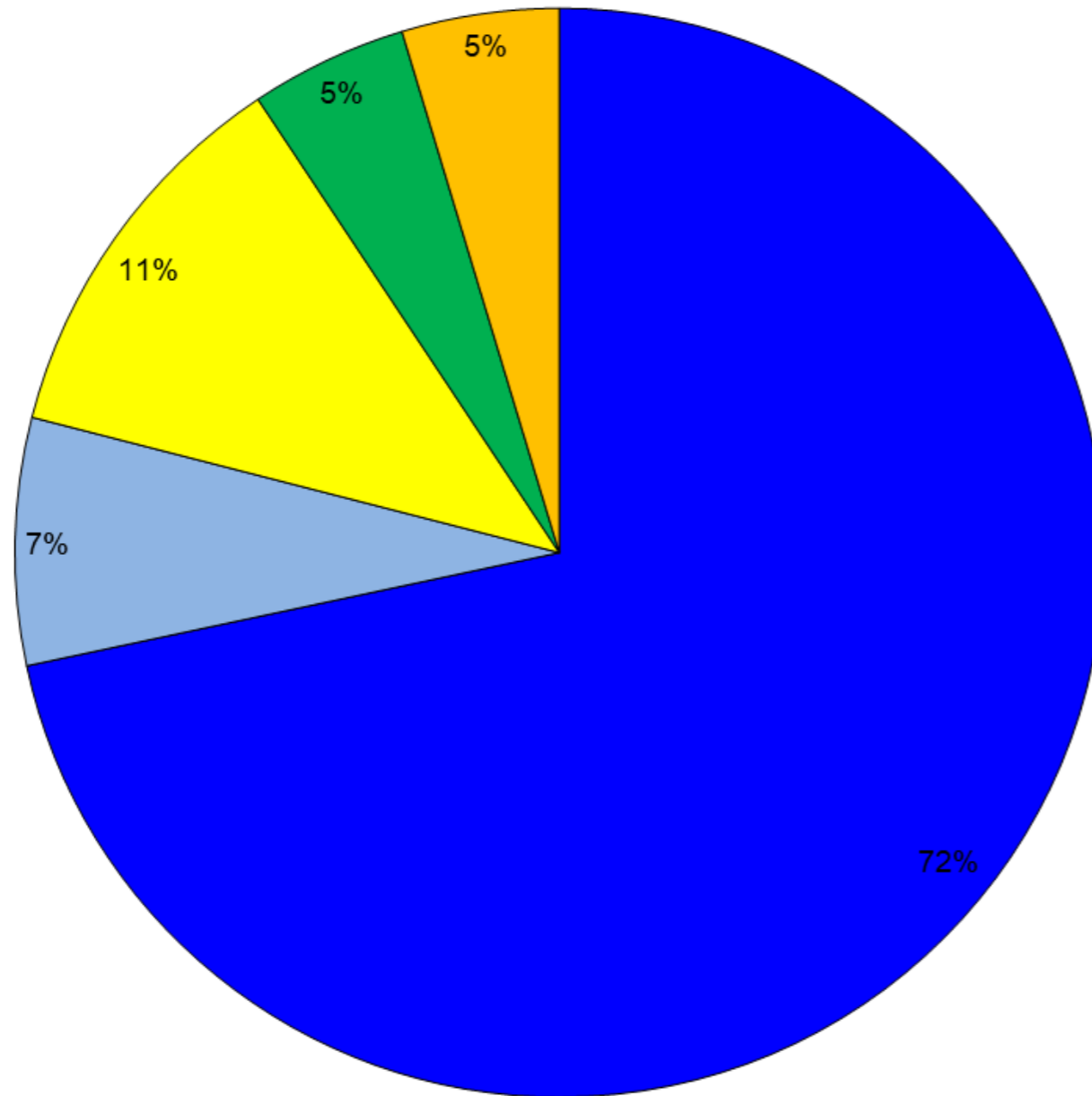


<https://www.ed.ac.uk/careers/students/undergraduates/careers-compass/student-guide>





What Do Edinburgh Graduates Do? Postgraduate (Taught) Mathematics DLHE: 2011/12 - 2016/17



Destination of known graduates
six months on:

- Employment (incl. volunteering/unpaid)
- Due to start a job in the next month
- Further study / Training
- Time out / Something else / Not available
- Seeking Employment / Study / Training

Data = 300 graduates
(44.8% response rate)

- Financial Modelling & Optimization
- Financial Mathematics
- Mathematics
- Operational Research

Please help us when your time comes!

15 months after graduation – whatever your circumstances!



GRADUATE OUTCOMES

Read more at :

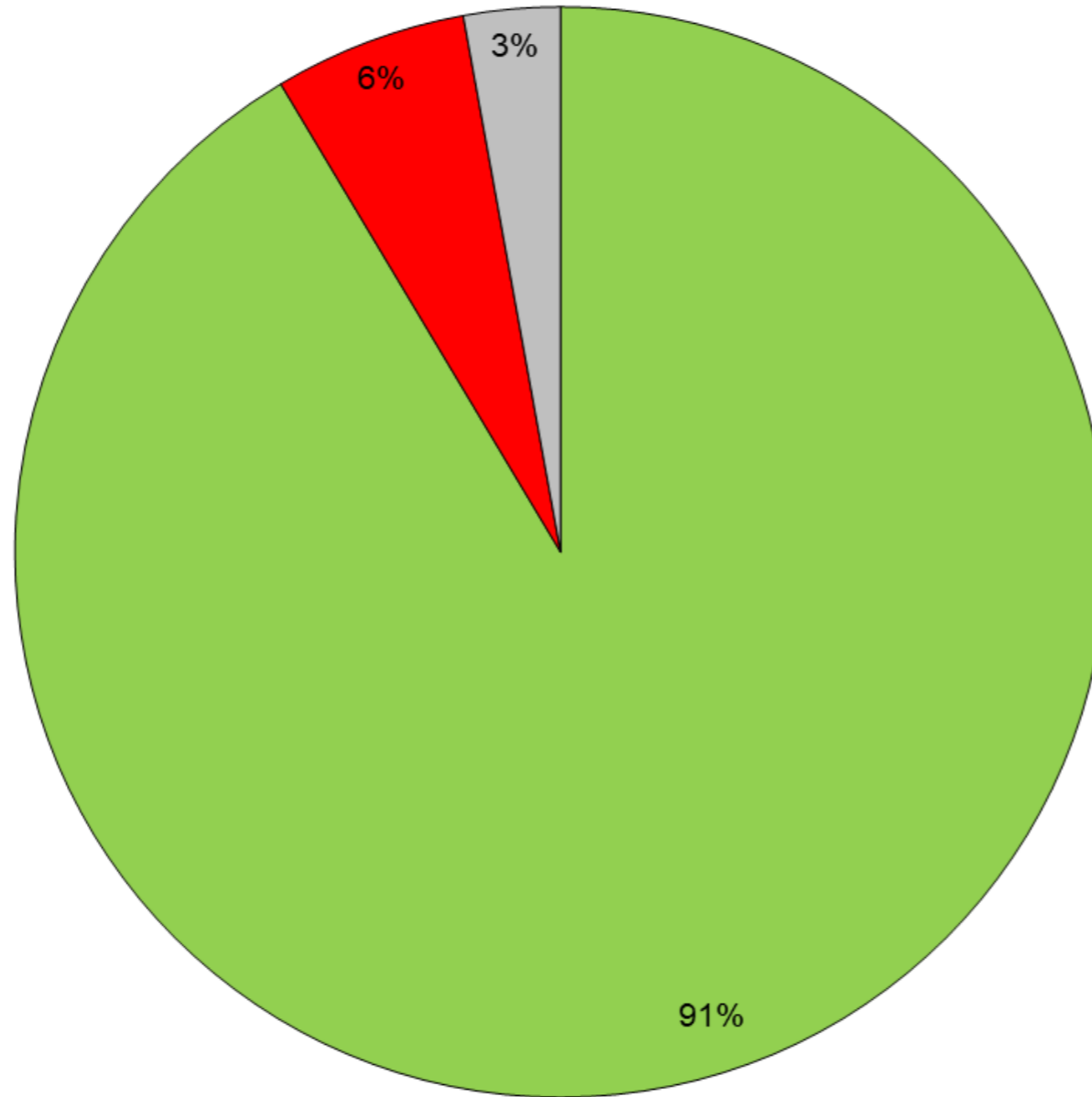
<https://www.ed.ac.uk/careers/graduates/graduate-outcomes-survey>





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What Do Edinburgh Graduates Do? Postgraduate (Taught) Mathematics Employed Graduates: 2011/12 - 2016/17



Job level of known graduates
in employment, six months on:

- Graduate
- Non-graduate
- Unknown

Data = 210 graduates

- Computational Mathematical Finance
- Financial Modelling & Optimization
- Financial Mathematics
- Mathematics
- Operational Research
- Statistics & OR

Common occupational areas

Of 210 PGT Maths Graduates in Employment, 2011/12 to 2016/17:

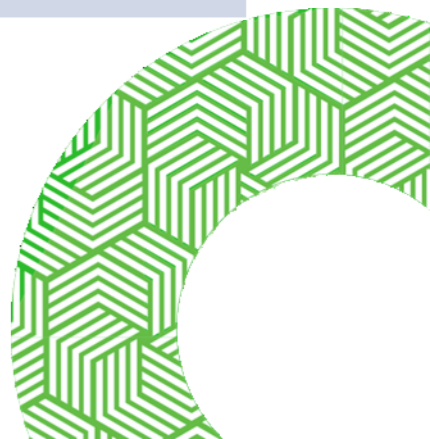
SOC Code	Occupational Area	No. Graduates
21360	Programmers & software development consultants	12
24230	Management consultants & business analysts	19
24253	Statisticians	10
24259	Actuaries, economists & statisticians n.e.c.	9
24269	Researchers n.e.c.	11
35340	Finance & investment analysts and advisers	43
35390	Business & related associate professionals, n.e.c.	41



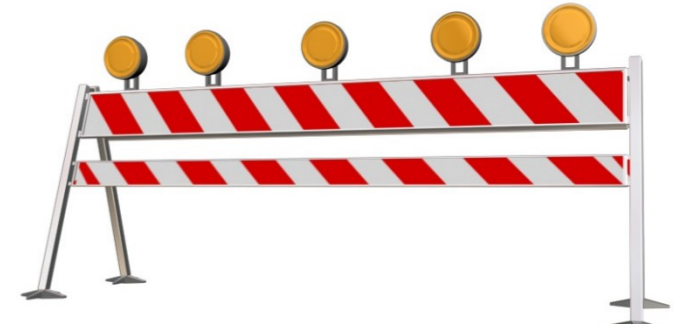
Mobility and emigration

210 PGT Maths Graduates in Employment, 2011/12 to 2016/17

From	Working in				
	UK	EU	International	Unspecified	Total
UK graduates	26 (49%)	1 (2%)	1 (2%)	25 (47%)	53
EU graduates	27 (44%)	22 (36%)	0 (0%)	12 (20%)	61
International graduates	10 (10%)	1 (1%)	73 (76%)	12 (13%)	96
Total	63 (30%)	24 (11%)	74 (35%)	49 (23%)	210



Barriers to employment



- **Time** – to devote to the job hunt / early deadlines
- Competition (global)
- Lack of job/financial knowledge
- Lack of research into potential employers
- Too many (poor) applications: “shotgun approach”
- For international students:
 - English language: **need a higher level of English to work here than to study (almost native standard) be realistic!**
 - Visas/work permits – but now possibly easier?



...and some possible solutions!



Need to understand UK recruitment: **when and how** do employers recruit?

- **Research** areas of interest: occupations e.g. accountant (several types), actuary, tax adviser, investment banker (many roles), IT, data analyst etc.
- **Research** and speak to employers – e.g. fairs/presentations.
- **Improve your business awareness** – read the business news (briefly) daily e.g. [BBC](#), [FT](#).
- Specifically for investment banking/markets, join [EUTIC](#).

Other [student societies](#) may also allow you to develop skills that employers value



Demand fluctuates



Figure 1. Graph showing changes to graduate vacancies from 2000 - 2022



Demand varies by sector

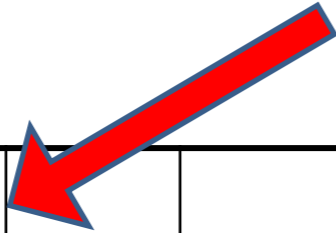
Table 1. Table showing changes to graduate vacancies in 2022 compared to pre-pandemic levels, and compared to 2021, divided by sector (87 employers who reported repeated measures in 2019, 2021, 2022).

Industry	Percentage change from 2019 to 2022	Percentage change between 2021 and 2022
Built Environment	67%	48%
Digital & IT	42%	22%
Health & Pharmaceuticals	24%	37%
Finance & Professional services	19%	26%
Energy, Engineering & Industry	18%	41%
Charity and Public Sector	10%	-11%
Legal	3%	3%
Retail and FMCG	-3%	20%

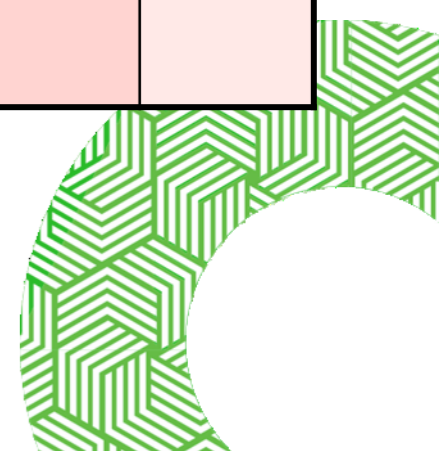


When do big UK employers recruit? (a.k.a. "The Milkround")

N.B. Closing dates for finance/consulting can be early (from late October to Christmas)



	S	O	N	D	J	F	M	A	M	J	J	A
Jobs Advertised	Light Green	Dark Green	Very Dark Green	Very Dark Green	Dark Green	Light Green	Light Green	Light Green	Dark Green	Light Green	Light Green	Light Green
Interviews	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
Assess. Centres	Light Red	Light Red	Dark Red	Dark Red	Dark Red	Dark Red	Dark Red	Light Red	Light Red	Light Red	Light Red	Light Red



Apply now or next autumn?

Now...

- 2 chances to apply: have a 'practice go' first?
- Start next summer if successful (= no gap)
- Much less pressure than waiting until Autumn 2021 with time running out on visa

BUT

- Are you really ready?!

Next autumn...

- Time to better understand MSc subject
- Time to improve business awareness
- Time to improve English
- Time to research preferred role and recruiters

BUT

- May need to take a year out



More about recruitment process: detail

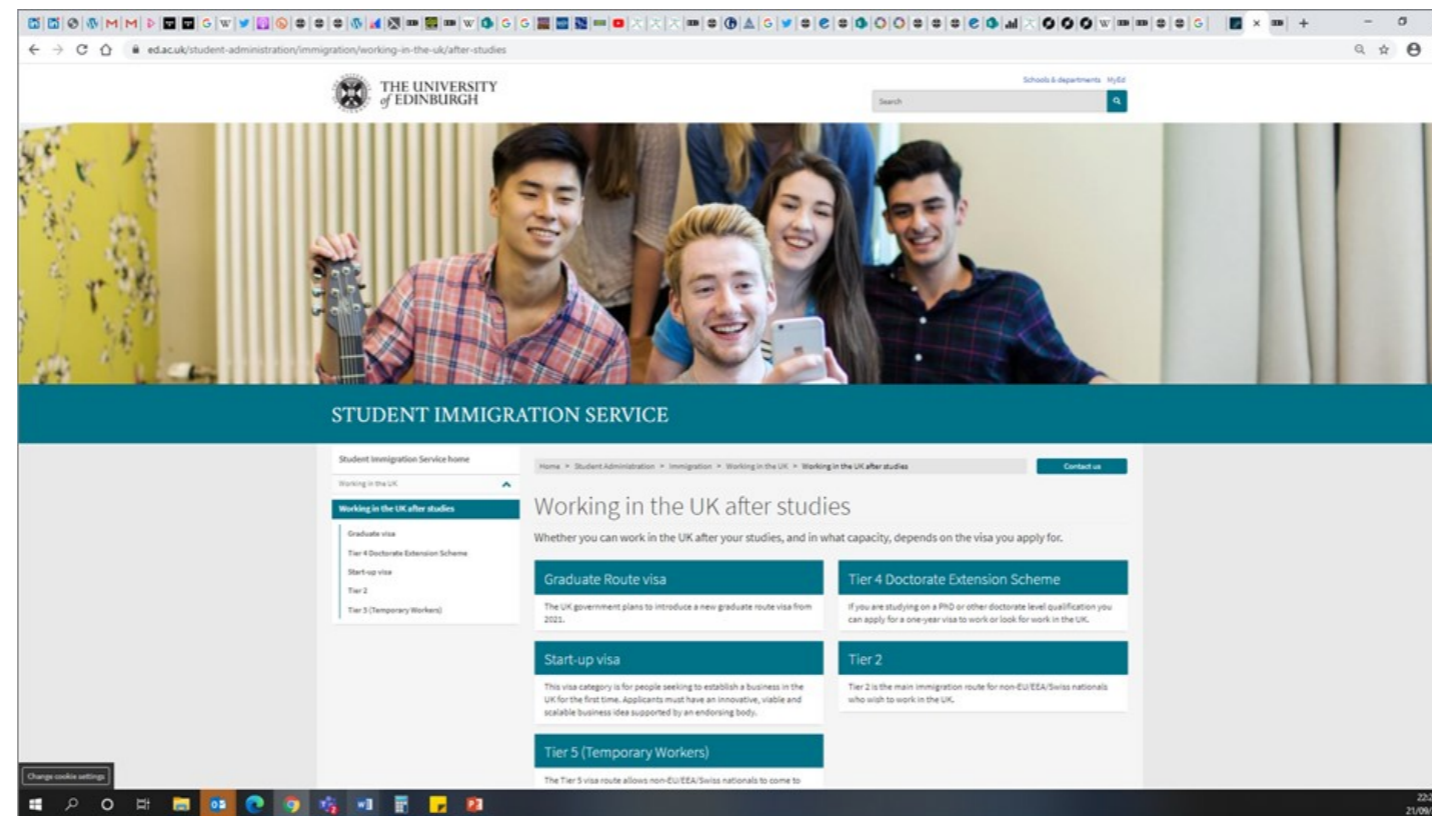
The screenshot shows a web browser window displaying the 'Careers Service' website. The URL in the address bar is <https://www.ed.ac.uk/careers/students/postgraduates/pgts/make-it-happen/understand-the-recruitment-process>. The page has a purple header with the 'Careers Service' logo. A navigation menu on the left includes 'Students', 'Postgraduates', 'Taught postgraduates', and 'Make it happen'. Under 'Make it happen', the current page 'Understand the recruitment process' is highlighted. The main content area features a breadcrumb trail: 'Home > Careers > Students > Postgraduates > Taught postgraduates > Make it happen > Understand the recruitment process'. The page title is 'Understand the recruitment process'. The introductory text states: 'Understanding the structure of the typical graduate recruitment process will give you an idea of timescales and help you feel more confident about what to expect.' The main body of text explains that graduate jobs are not limited to structured training schemes and that many graduates find roles in various organizations. It also notes that recruitment processes have moved online, even before the COVID-19 pandemic. A sub-section titled 'How has COVID-19 changed the recruitment process: what to expect and how to prepare' discusses the timeline of the recruitment process, which can take several months. It lists several stages: online application forms, games-based assessments, online selection tests, telephone interviews, automated interviews, and face-to-face interviews. It also mentions assessment centres and provides a list of characteristics for medium and smaller companies, such as being more likely to recruit closer to the time needed and less likely to use selection tests. The page concludes with a link to 'Create your own opportunity'.

<https://www.ed.ac.uk/careers/students/postgraduates/pgts/make-it-happen/understand-the-recruitment-process>



A word on visas

- **Information is power!**



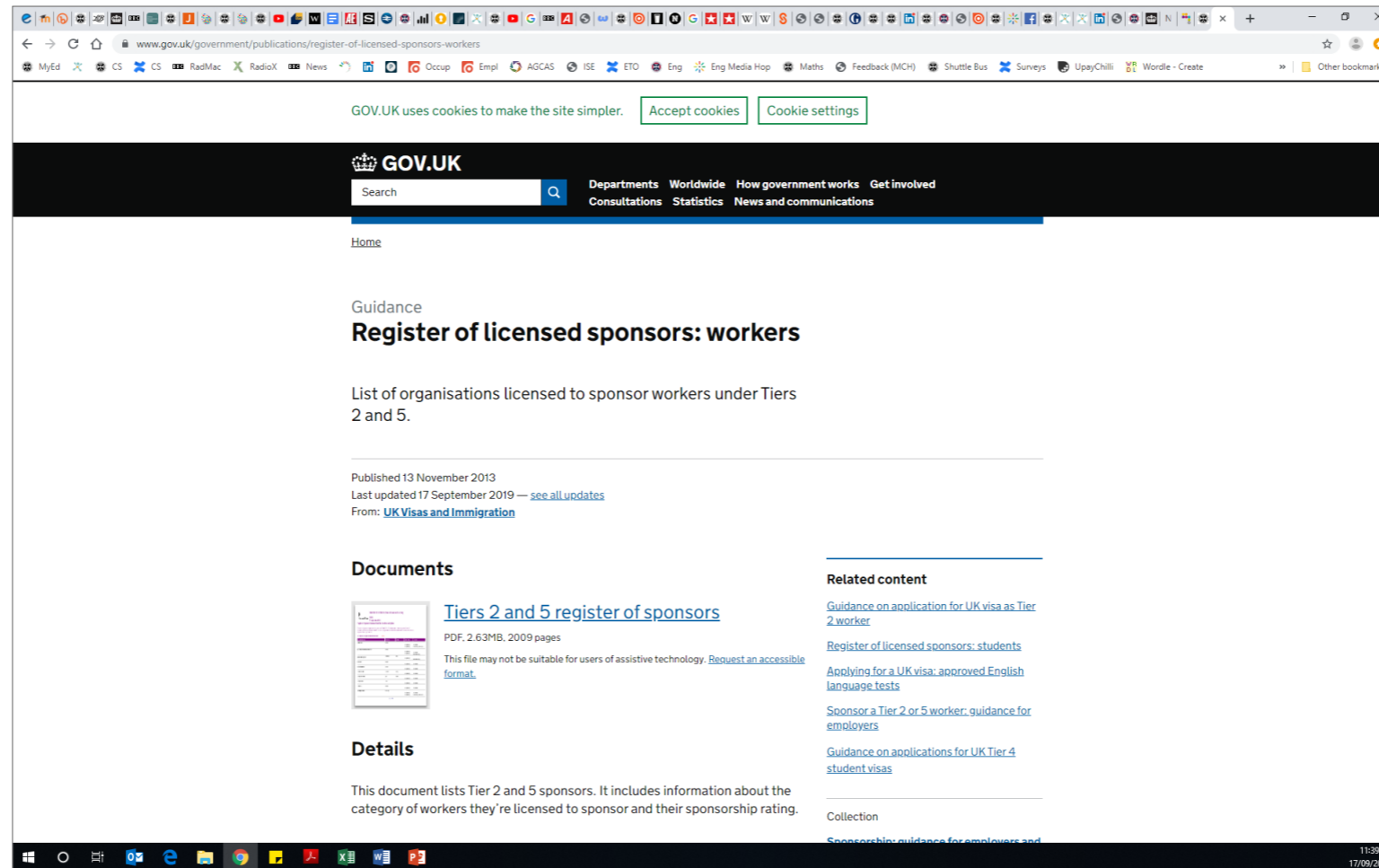
- Use the Student Immigration Service
- Understand/keep up with the rules – may need to educate recruiters!

Inspiring futures

www.ed.ac.uk/student-administration/immigration/working-in-the-uk/after-studies

Recruiters who sponsor?

- There is a 'list' of those who have...



The screenshot shows a web browser window displaying the GOV.UK website. The address bar shows the URL: www.gov.uk/government/publications/register-of-licensed-sponsors-workers. The page title is "Register of licensed sponsors: workers". Below the title, it says "List of organisations licensed to sponsor workers under Tiers 2 and 5." The page is published on 13 November 2013 and last updated on 17 September 2019. It is from the "UK Visas and Immigration" department. The page includes a "Documents" section with a PDF titled "Tiers 2 and 5 register of sponsors" (2.63MB, 2009 pages) and a "Details" section stating that the document lists Tier 2 and 5 sponsors and their sponsorship ratings. There is also a "Related content" section with links to other visa-related pages.

- But how helpful is it?

Inspiring futures www.gov.uk/government/publications/register-of-licensed-sponsors-workers

International students: hints & tips...

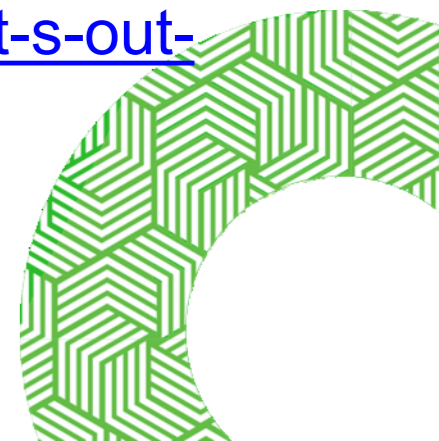
- International students: **have a back-up plan** to working in the UK
- Non-English speakers: **use/improve your language!**
 - Speak in English!
 - Read English language news (e.g. BBC)
 - Listen to [BBC Radio 4](#) or [Radio 5 Live](#) (talk radio)
- Volunteer? (Time permitting)
<https://www.ed.ac.uk/careers/students/postgraduates/pgts/build-experience/ways-to-build-experience>
- => also **learn about British culture!**
- [Talent Scotland](#) advertises roles for international graduates



More advice for international students

The screenshot shows a web browser displaying the University of Edinburgh's Careers Service page. The URL in the address bar is <https://www.ed.ac.uk/careers/students/postgraduates/pgts/discover-what-s-out-there/find-jobs-for-after-graduation/tier-4-visa>. The page features a purple header with the University of Edinburgh logo and a search bar. Below the header is a large image of four diverse young adults talking. A purple banner below the image reads "CAREERS SERVICE". The main content area is titled "If you are on a Tier 4 visa – graduate jobs" and provides advice on finding jobs and visas in the UK. A left-hand navigation menu includes options like "Students", "Postgraduates", and "Find jobs for after you graduate". The page also includes a "Contact us" button and a "Change cookie settings" link.

<https://www.ed.ac.uk/careers/students/postgraduates/pgts/discover-what-s-out-there/find-jobs-for-after-graduation/tier-4-visa>



Where to find 'big employer' vacancies

MyCareerHub <https://www.hub.ed.ac.uk/s/mycareerhub>

eFinancial Careers www.efinancialcareers.com

Inside Careers www.insidecareers.co.uk

TARGETjobs www.targetjobs.co.uk

Prospects www.prospects.ac.uk

Milkround www.milkround.com

Job boards:

www.totaljobs.com

www.s1jobs.com (Scotland)

www.scotsman.com/jobs (Scotland)

<https://uk.indeed.com/> (aggregates job boards)



Talking to employers

The poster features a brown background on the left with white text, and a yellow background on the right with a white cloud graphic. The cloud contains an illustration of three business professionals in suits using ladders to reach different levels of clouds, with one person looking through a telescope. The University of Edinburgh logo and text are in the top left. The NatWest Group logo is in the top right of the cloud area.

 THE UNIVERSITY of EDINBURGH
Careers Service

Discover Careers

McEwan Hall
27 - 29 September 2022

Tuesday & Thursday, 12pm - 5pm
Wednesday, 2pm - 7pm

Inspiring futures Find out more on MyCareerHub

Sponsored by



NatWest
Group

+ company presentations/events programme

- Check **MyCareerHub** for details and live updates

<https://www.hub.ed.ac.uk/s/mycareerhub/events/Detail/938769/discover-careers>



Smaller companies

- Are more **reactive** to organisational need/workload – recruit as/when vacancies occur (any time)...
- **Do not plan graduate recruitment** so far ahead – may advertise any time up until the summer
- Might simply wait for interested candidates to show themselves (i.e. wait for you to go to them!)

=> Be proactive!



Creative job search

Draw-up your own 'lists' of companies of interest... then you can:

- Check their websites, incl.

Recruitment / Jobs / News / About us parts

- Learn about them, their clients, their successes

- Make a **speculative application**:

- Send a CV + targeted covering letter – use **LinkedIn**
- Ideally to a named person – use
- Follow-up with a phone call

<https://www.ed.ac.uk/careers/students/undergraduates/build-experience/create-your-own-opportunity>

2 weeks: Selling Yourself: Talking to Employers & Networking
Inspiring futures

<https://teaching.maths.ed.ac.uk/main/employability/events-22-23>



Updated daily! Check weekly...



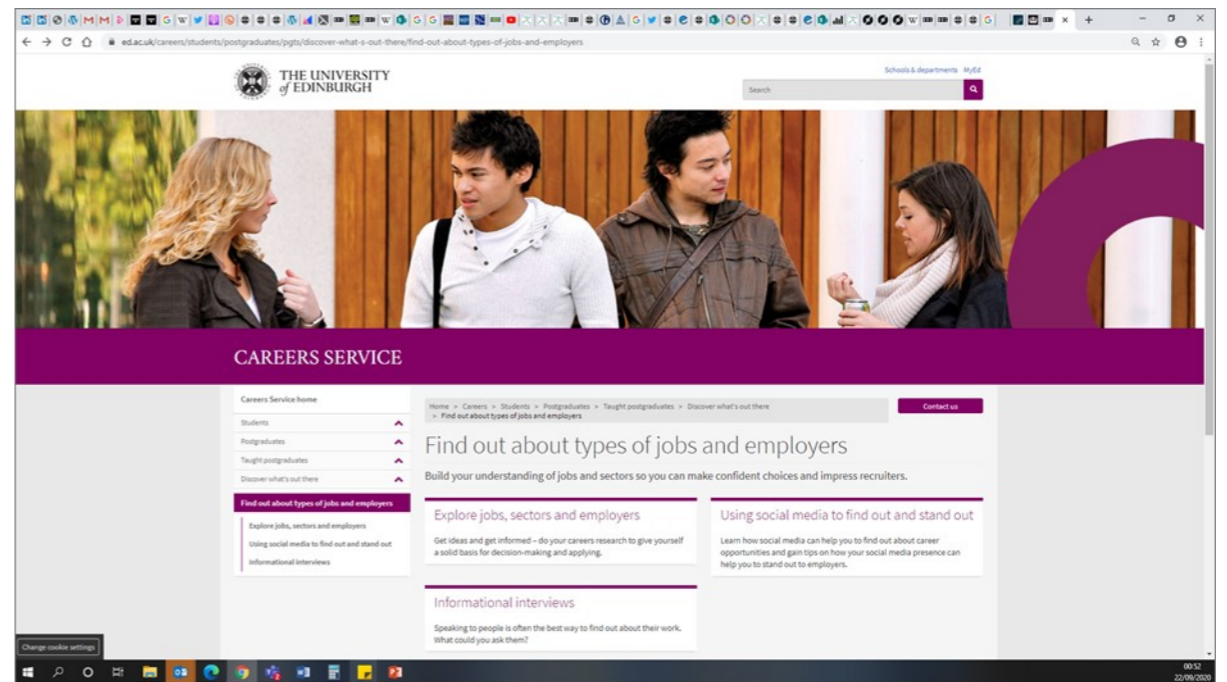
Inspiring futures

<https://www.hub.ed.ac.uk/s/mycareerhub>



Learn about different occupations > get a focus!

- **e.g. Finance:** you need to choose an area of financial services that interests you – and be able to **explain why** – on a job application/ at interview *why* it interests you!



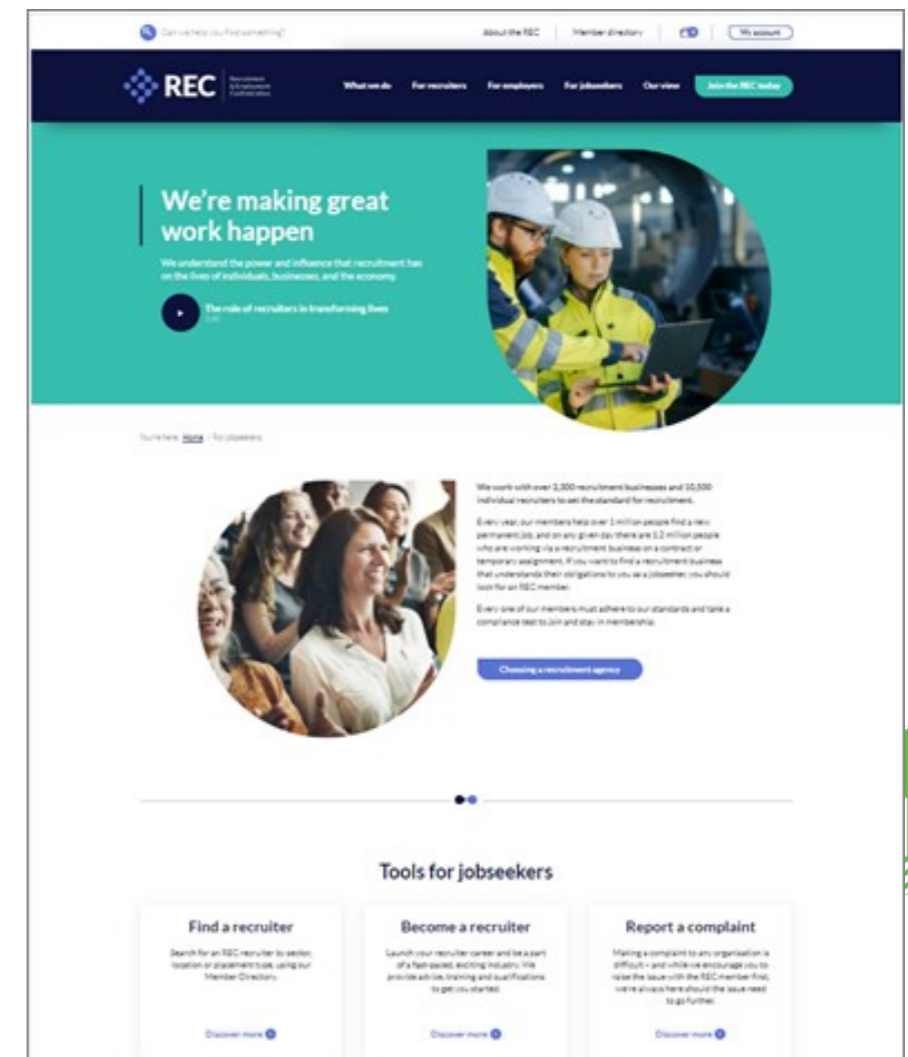
- The more you understand a job, the easier to articulate to an employer why the interests and how it matches your skills/interests/knowledge.

<https://www.ed.ac.uk/careers/students/postgraduates/pgts/discover-what-s-out-there/find-out-about-types-of-jobs-and-employers>



What about recruitment agencies?

- OK...to a point. Can be useful for finance jobs in Edinburgh.
- In the UK, you **do not** pay any money/fees!
- Find agencies that focus on your favoured sector!
- To search for agencies:
 - REC UK www.rec.uk.com/jobseekers
 - Yellow Pages www.yell.com
- Who is the agency's client...???



Support with applying

Use CV360;
then get
feedback

The screenshot shows a web browser displaying the 'Make it happen' page on the University of Edinburgh's Careers Service website. The page features a purple header with the text 'CAREERS SERVICE'. Below the header, there is a navigation menu with options for 'Students' and 'Undergraduates'. The main content area is titled 'Make it happen' and includes a sub-header 'Find out how to write CVs, cover letters, applications, and how to do well at online tests, interviews, and assessment centres.' The page is divided into four main sections: 'Plan your approach', 'Write CVs and applications', 'Selection tests', and 'Interviews and assessment centres'. Each section provides a brief overview of the topic. The page also includes a 'Contact us' button and a 'Change cookie settings' link. The browser's address bar shows the URL 'ed.ac.uk/careers/students/undergraduates/make-it-happen'. The Windows taskbar is visible at the bottom of the screen, showing the time as 00:33 on 22/09/2020.

<https://www.ed.ac.uk/careers/students/postgraduates/pgts/make-it-happen>

Inspiring futures

Overseas recruitment

Apply the same principles

- Use the Careers Service website
<https://www.ed.ac.uk/careers/students/postgraduates/pgts/discover-what-s-out-there/find-jobs-for-after-graduation/finding-jobs-outside-the-uk>
- ...and any open access info from overseas universities' careers services
- Some international vacancies on **MyCareerHub** - check archive too!
- Multinationals in the UK will often have offices in other countries (N.B. can often transfer internally after a period of time).
- Jobs page on **LinkedIn** is very global
- Take same approach to speculative applications...
- ...but research 'norms' in each country; customs vary!



Use our website

<https://www.ed.ac.uk/careers/students/postgraduates/pgts>

The screenshot shows the University of Edinburgh Careers Service website. The header includes the university logo and name, a search bar, and navigation links for 'Schools & departments' and 'MyEd'. Below the header is a large image of three students talking. A prominent blue starburst graphic on the right contains the text 'UK: don't Google!'. The main content area is titled 'CAREERS SERVICE' and 'Taught postgraduates', providing information and advice for taught postgraduate students. The page is organized into a grid of four main sections: 'Understand yourself', 'Discover what's out there', 'Build experience', and 'Make it happen'. A left-hand navigation menu lists various categories, with 'Taught postgraduates' selected. The bottom of the page shows a Windows taskbar with various application icons and a system clock indicating 10:40 on 14/09/2020.

THE UNIVERSITY of EDINBURGH

Schools & departments MyEd

Search

UK: don't Google!

CAREERS SERVICE

Careers Service home

Students

Postgraduates

Taught postgraduates

Understand yourself

Discover what's out there

Build experience

Make it happen

Become professional

Home > Careers > Students > Postgraduates > Taught postgraduates

Conf

Taught postgraduates

Information and advice for taught postgraduate students

Understand yourself

Understand what motivates you and assess your skills and strengths to help you make career decisions

Discover what's out there

Graduate jobs, part-time work, further study - explore your options and research the possibilities

Build experience

Find ways to build your experience, challenge yourself and expand your skills

Make it happen

Writing CVs, cover letters and applications, practising selection tests and preparing for interviews or assessment centres

Become professional

Advice on some of the behaviours which will help you to make an easy transition into the workplace and perform well in your role

change cookie settings

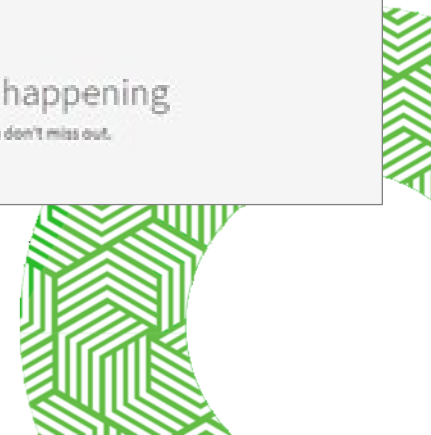
10:40
14/09/2020

Talk to us

- Live web chat
- Submit a question
- Use the information drop-in (daily, 1-3pm)
- Book...
 - Appointment (30 mins)
 - Practice intv. (45 mins)
 - Maths School appointments (15 mins)
Monday PM



A screenshot of the 'CAREERS SERVICE' website. The page has a purple header with the text 'CAREERS SERVICE'. Below the header, there is a navigation menu with 'Home', 'Careers', 'Students', and 'Quick links'. A 'Contact us' button is visible in the top right corner. The main content area is titled 'Quick links' and contains several sections of text and bulleted lists. The sections include: 'If you're in a hurry go straight to the relevant information or part of our service using these convenient quick links', 'Our website is full of good advice to support you with your job hunting and future planning...', 'If you want to look for a job', 'If you want feedback on your CV', 'If you want to prepare for an interview', 'If you want to book an appointment to talk about your future', and 'If you want to see what events and workshops are happening'. The page also features a sidebar on the left with a 'Students' menu containing 'Undergraduates', 'Postgraduates', 'Quick links', and 'Equality, diversity and inclusion'.

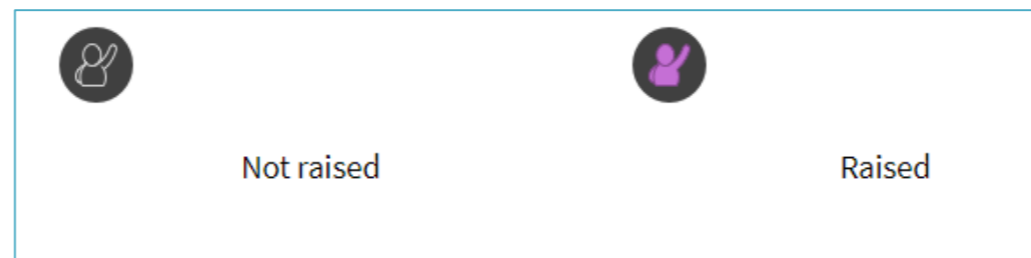


Any questions

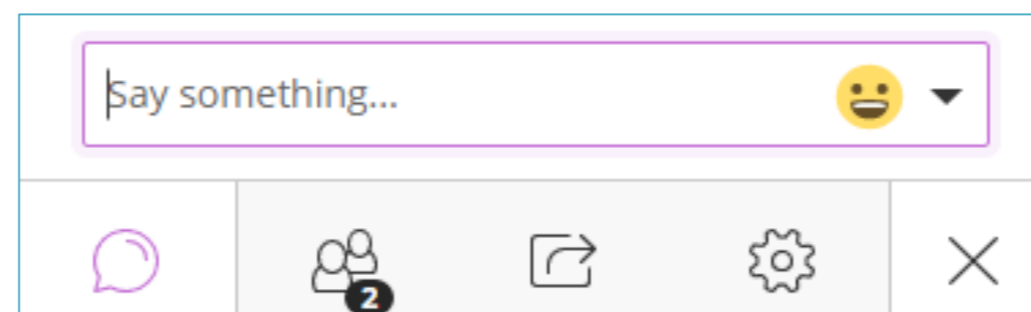


Any questions?

- Please use the hand raise icon to queue up your question



- When called upon to ask your question, please type your question into the 'Text Chat Area'



Before you go - how did we do today?

Prepare for Careers Week

<http://bit.ly/CareersSession>

All responses are anonymous





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TITLE has now closed.

For details of upcoming Careers Service events visit
[MyCareerHub](#).



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