



THE UNIVERSITY of EDINBURGH
Careers Service

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

This session will begin at **13:10** (UK time).

To join this session you will need the following:

- Strong internet access (broadband connection highly recommended if possible)
- For the best experience, use Google Chrome
- We recommend closing all programmes except for the browser you are using for your Collaborate session.
- Headphones (recommended)

This session will be recorded.

Inspiring futures





THE UNIVERSITY of EDINBURGH
Careers Service

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

Matt Vickers

Careers Consultant

Schools of Engineering & Mathematics



Before we start

Can you hear the presenter talking?

- Please select yes/no on the on-screen poll, or type your answer in the chat box
- If you can't hear, try leaving and re-joining the session – Google Chrome is the recommended browser.
- Collaborate Troubleshooting Guide:
<https://www.ed.ac.uk/information-services/learning-technology/communication/bb-collaborate/help-support/troubleshooting>



Asking Questions

Etiquette



Please mute your microphone

You can type a question or comment at any time in the text chat.



Identity



Why is my name displayed?

Your name is displayed to the facilitator and the other students and you are able to see their names. This is to help keep the learning space secure, support engagement, and run the session effectively. It will not be visible on any published recording.

Do I have to turn my video on?

No.



Recording

- This session will now be recorded. Any further information that you provide during a session is optional and in doing so you give us consent to process this information.
- These sessions will be stored by the University of Edinburgh for one year and published on our website and Media Hopper during that time.
- The text chat is recorded but will not be visible on the published recording.
- By taking part in a session you give us your consent to process any information you provide during it.
- We will tell you when we stop recording.



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



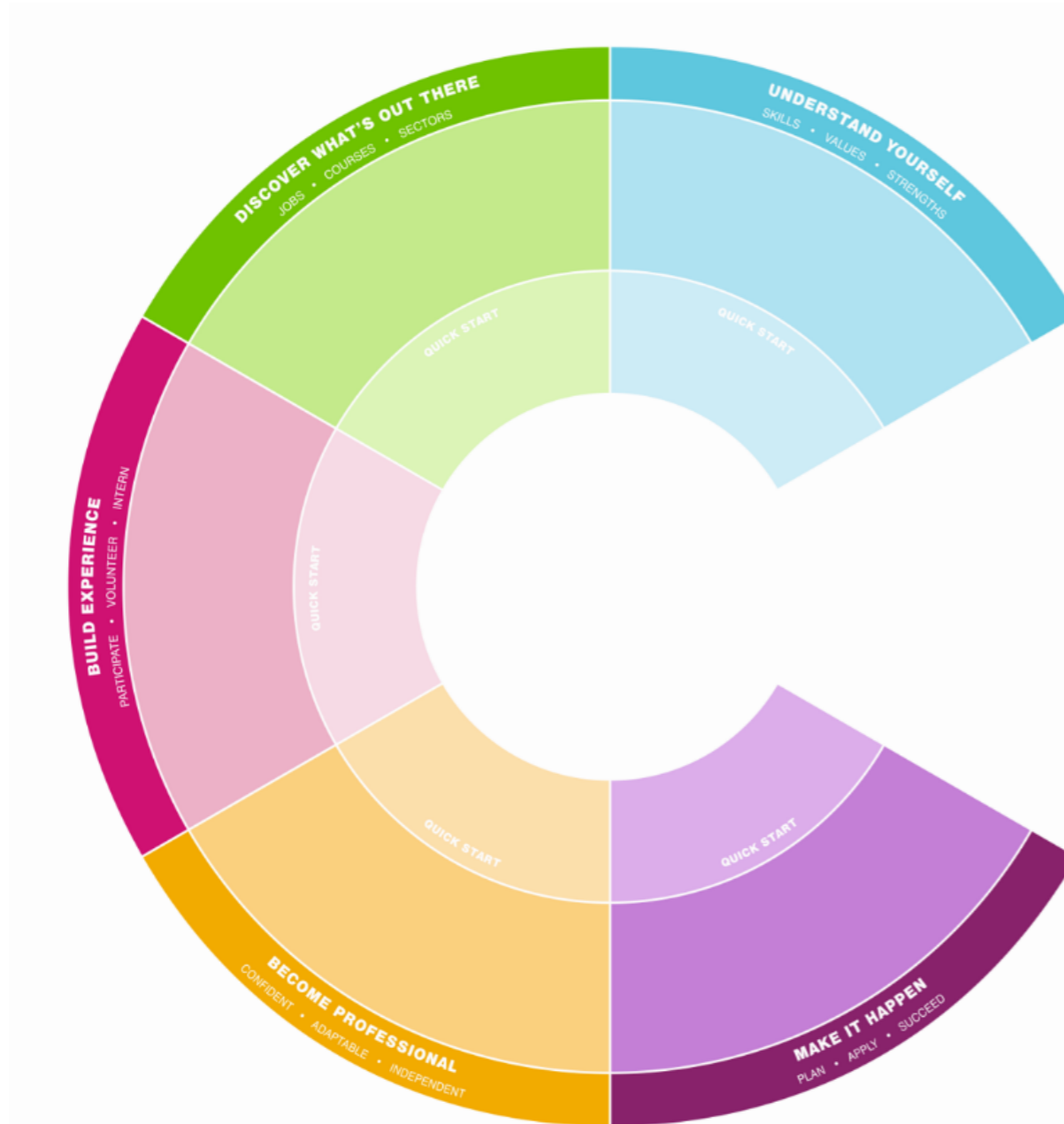
Career planning *process* – a model



“DOTS Model”, Law & Watts (1977)



Careers Compass – chart your progress

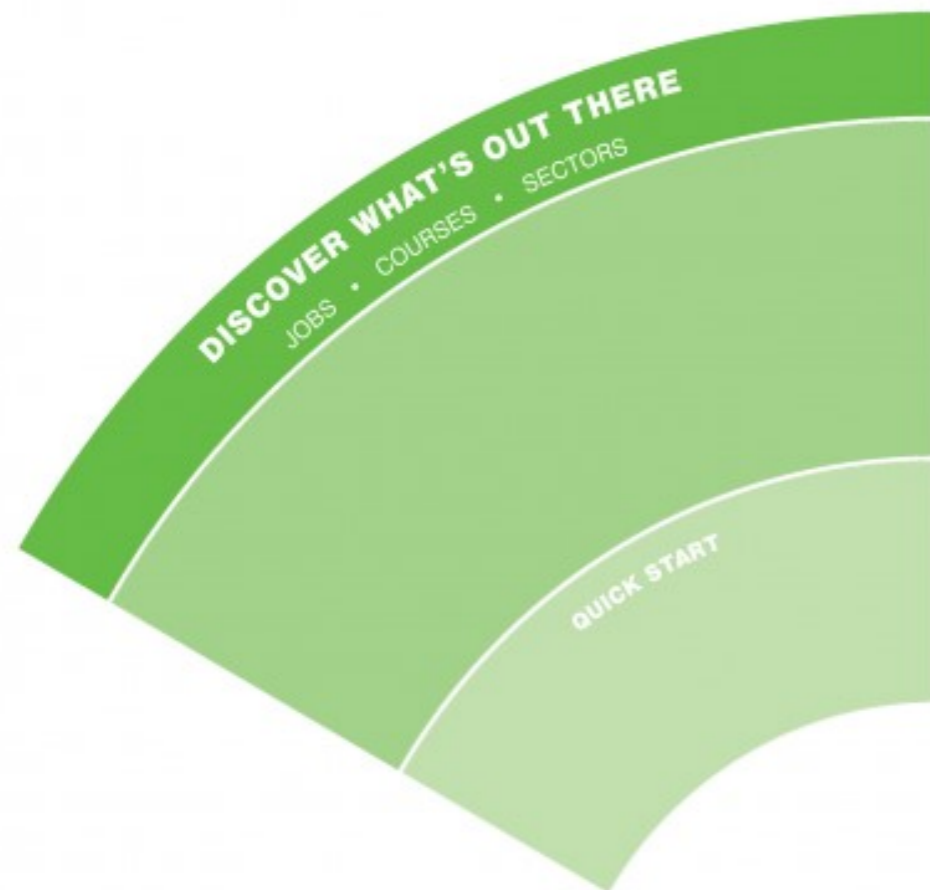


- **Understand yourself** – skills, values, strengths
- **Discover what's out there** – jobs, courses, sectors
- **Build experience** – participate, volunteer, intern
- **Become professional** – confident, adaptable, independent
- **Make it happen** – plan, apply, succeed



Of most interest?

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



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

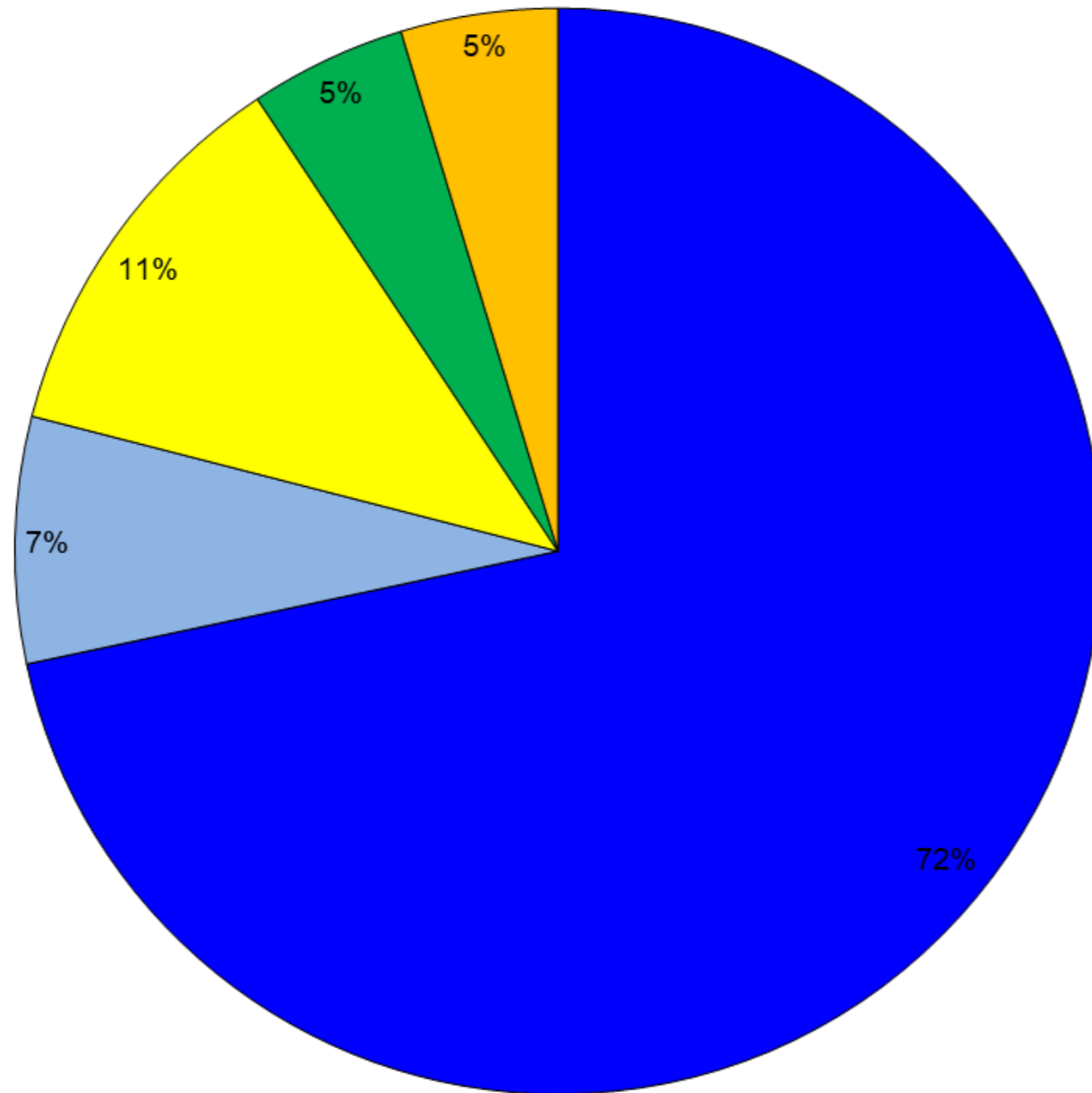


<https://www.ed.ac.uk/careers/students/undergraduates/careers-compass/student-guide>





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 :

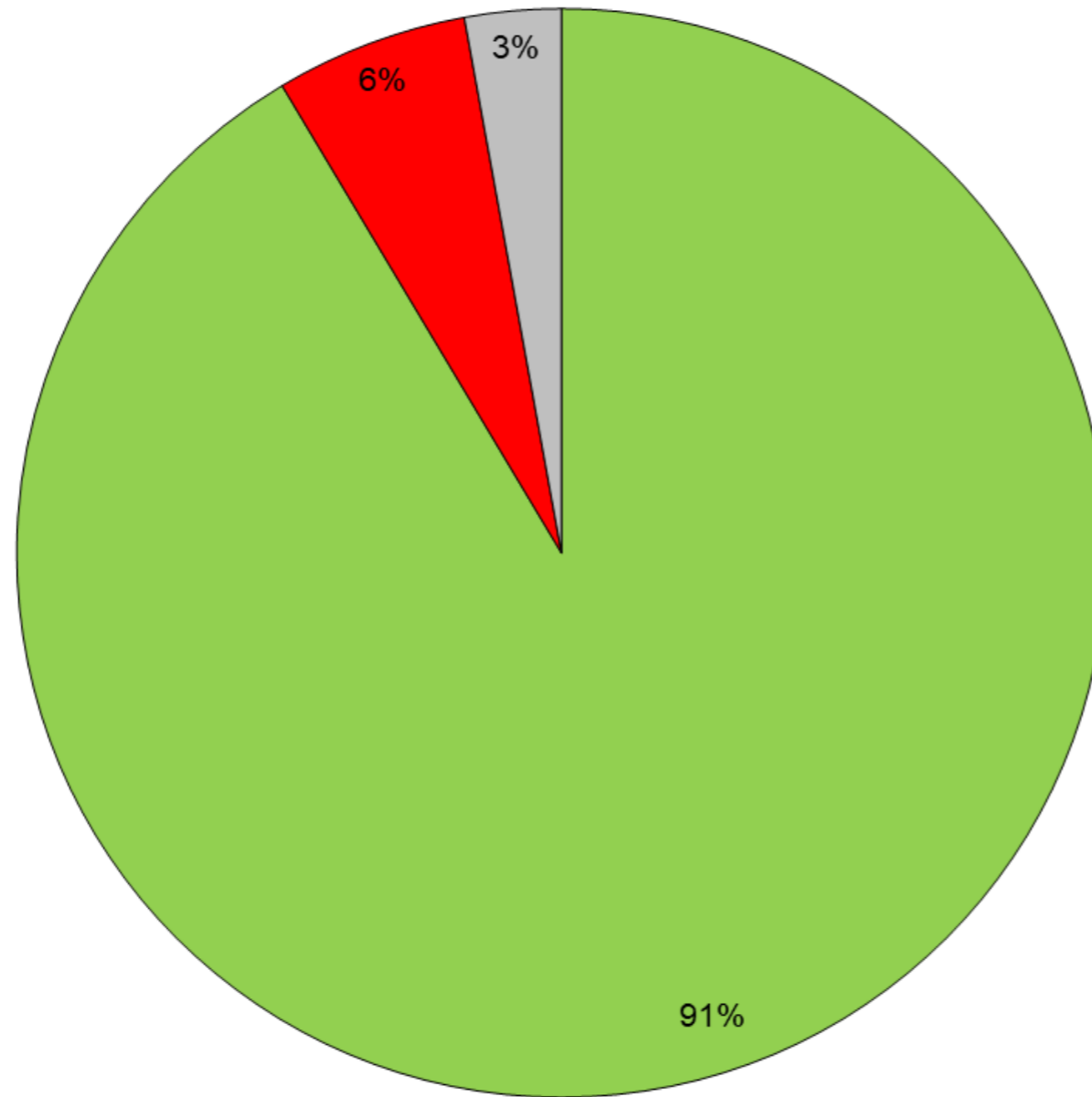
<https://www.ed.ac.uk/careers/graduates/graduate-outcomes-survey>





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Careers Service

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

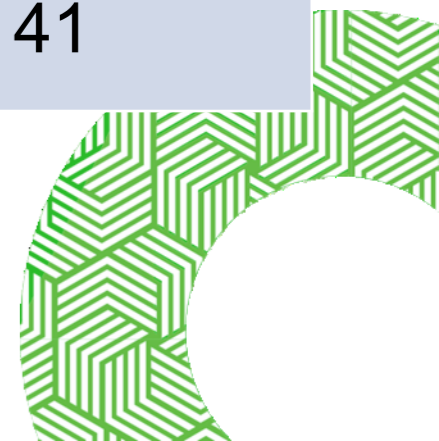
Data = 210 graduates

- 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:

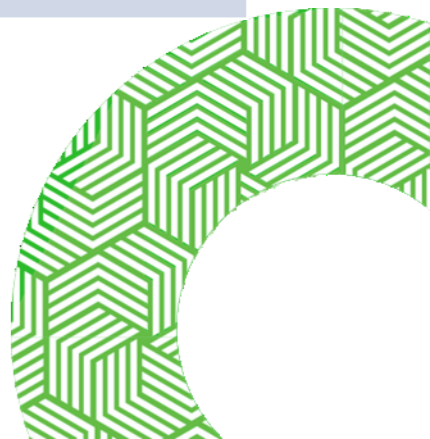
SOC Code	Occupational Area	No. Graduates
21360	Programmers & software development consultants	12
24230	Management consultants & business analysts	19
24253	Statisticians	10
24259	Actuaries, economists & statisticians n.e.c.	9
24269	Researchers n.e.c.	11
35340	Finance & investment analysts and advisers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



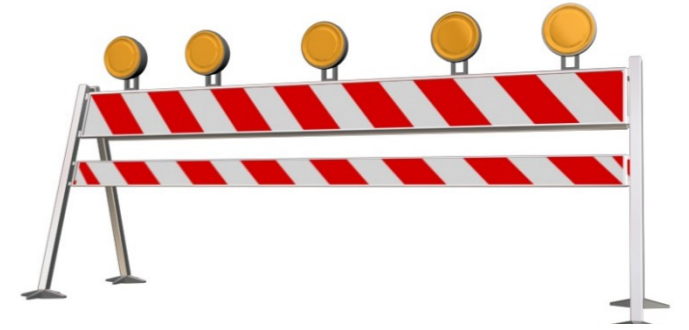
Mobility and emigration

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



A word on Covid-19 / labour market

- Lockdown had a big impact: UK was in recession
- Brexit also added to uncertainty
- ...**BUT things are improving!**



“The UK labour market continued to [recover towards pre-COVID levels of unemployment](#) by the end of August, according to the Office of National Statistics (ONS)...

...The number of payroll employees showed another monthly increase, up 241k to 29.1m in August 2021, returning to pre- pandemic (February 2020) levels.

...the UK economy is only expected to return to its pre-pandemic level in Q1 2022 with growth of 5.2% forecast for 2022.

...Indeed have been looking at [graduate vacancies in their data](#). Through 31 August, the share of graduate postings per million job listings on Indeed UK is up 11% from 2020, but is still 23% below the same day in 2019.”

Charlie Ball, Prospects Head of HE Intelligence
[Prospects Luminare](#), September 2021

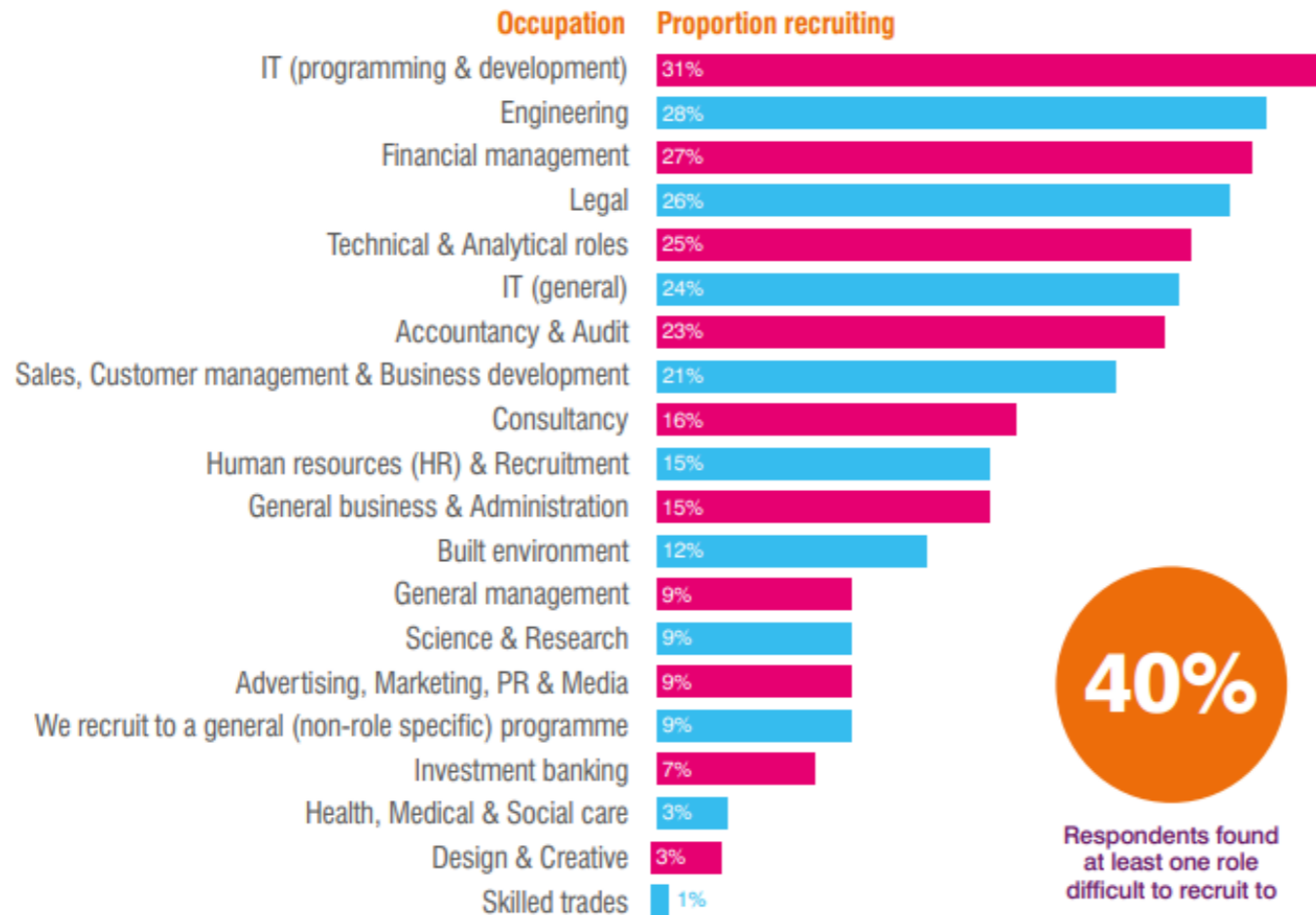


Graduate roles

Respondents reported that graduates were being recruited for a wide range of roles. Figure 3.2 sets out the most common roles that graduate employers were recruiting to.

Figure 3.2

Proportion of graduate employers recruiting to different occupations (171 organisations)



42%

Of employers recruiting IT programmers found it difficult to find the right candidate

Some of these roles were more difficult to recruit to than others. A substantial minority of respondents (40%) reported that they found at least one role difficult to recruit to. The respondents were more likely to report that they found it difficult to recruit if they were in the *Health & Pharmaceutical* sector (where 100% reported difficulty), *Energy, Engineering & Industry* (55%) or *Finance & Professional services* (53%). While only 8% of organisations in the *Legal* sector reported difficulty recruiting any of their roles.

In terms of roles, organisations highlighted IT (programming & development) where 42% of the employers recruiting to this role were finding recruitment difficult. Other roles that were difficult to recruit to included Engineering (35%), IT (general) (32%), Technical & Analytical roles (31%)

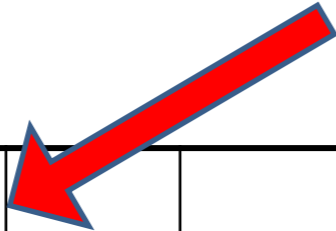
Demand varies by sector

Source: *Student Recruitment Survey 2020*, Institute of Student Employers (Nov-20)

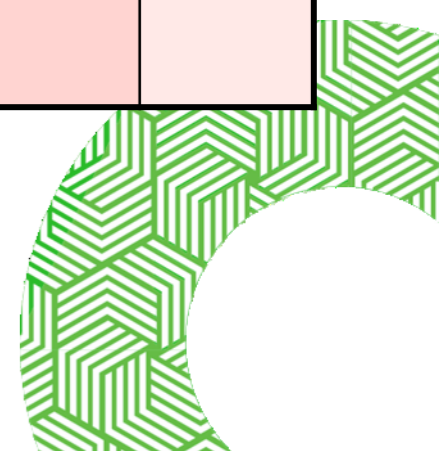


When do big UK employers recruit? (a.k.a. "The Milkround")

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

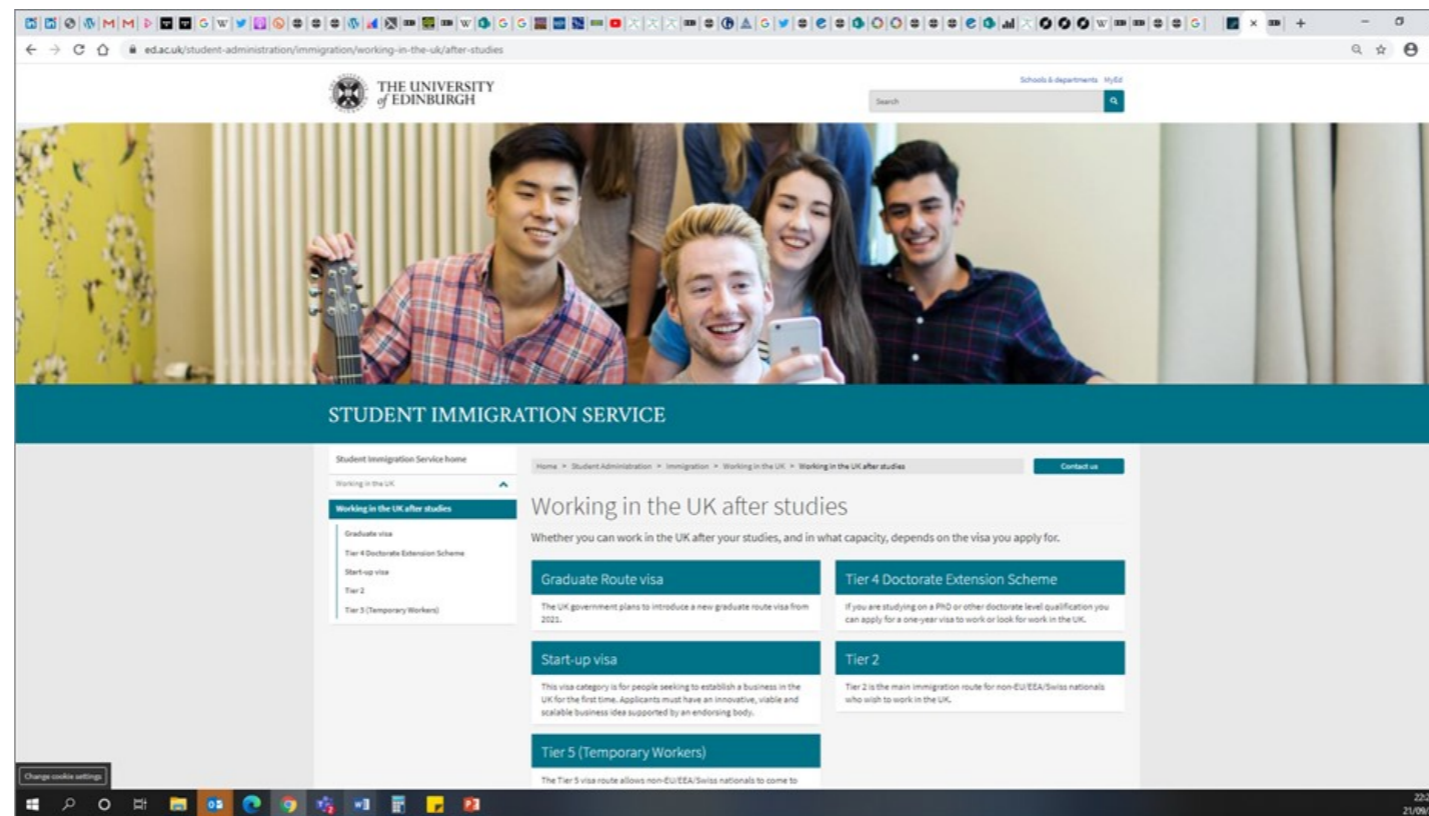
The screenshot shows a web browser window displaying the 'Careers Service' website. The URL in the address bar is <https://www.ed.ac.uk/careers/students/postgraduates/pgts/make-it-happen/understand-the-recruitment-process>. The page has a purple header with the 'Careers Service' logo. A navigation menu 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 become more online due to the COVID-19 pandemic. A sub-section titled 'How has COVID-19 changed the recruitment process: what to expect and how to prepare' follows, detailing the typical stages of the recruitment process, such as online applications, games-based assessments, selection tests, and interviews. A list of stages includes: Online application form or CV and cover letter (with links for 'How to write your CV', 'How to write your cover letter', and 'How to complete an application form'); Games-based assessment (with link for 'Gamification in recruitment'); Online selection tests (with link for 'Selection tests'); Telephone interview, Automated interview (video interview), and Face to face interview (with link for 'How to prepare for interview'); and Assessment centre (with link for 'Assessment centres'). The page concludes by noting that medium and smaller companies are more likely to recruit closer to the time needed, rely on CVs and interviews, and are more open to direct speculative approaches. A 'Create your own opportunity' link is provided at the bottom. The Windows taskbar at the bottom shows the time as 00:41 on 22/09/2020.

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



A word on visas

- **Information is power!**



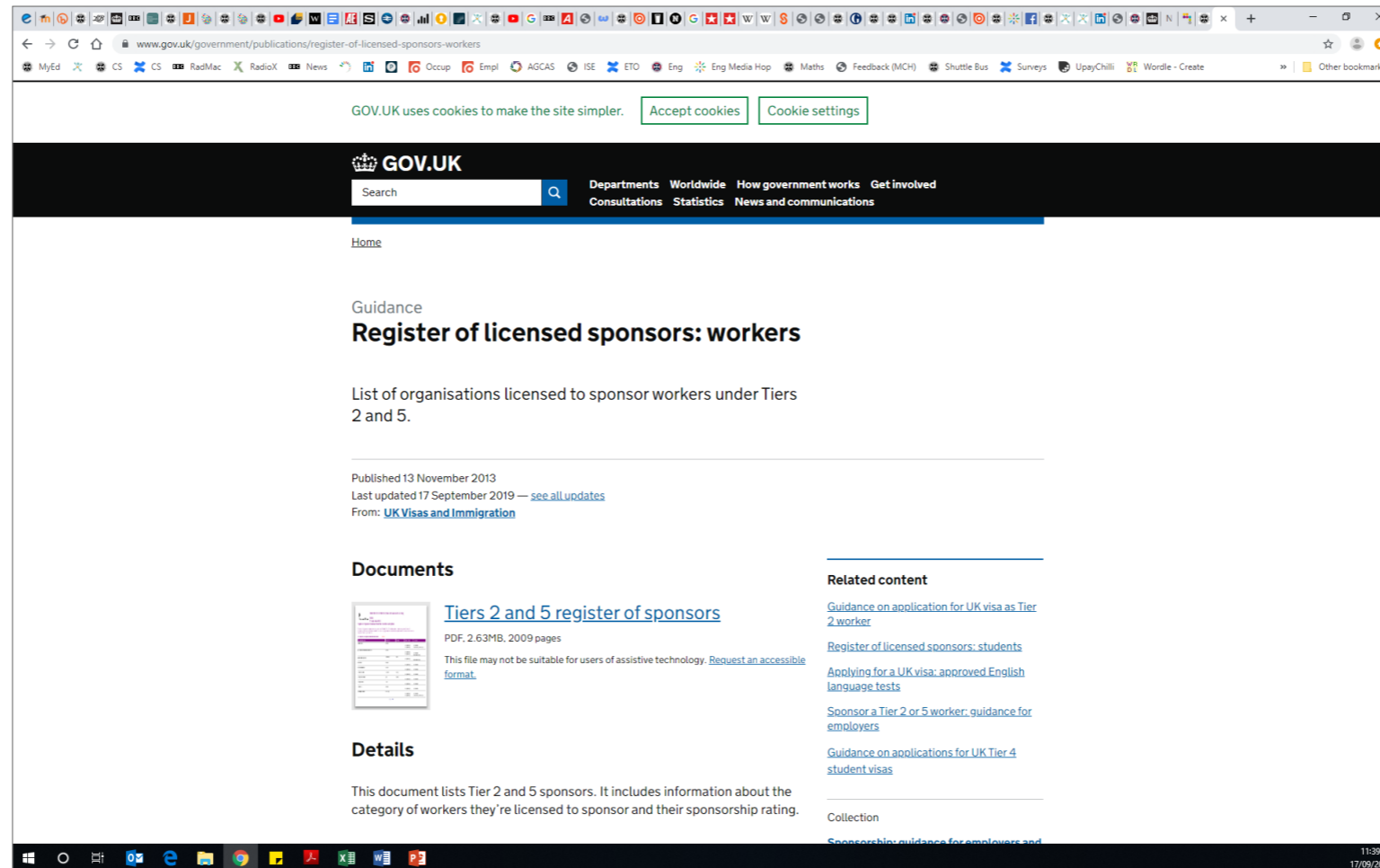
- Use the Student Immigration Service
- Understand/keep up with the rules – may need to educate recruiters!

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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 URL in the address bar is www.gov.uk/government/publications/register-of-licensed-sponsors-workers. The page features a search bar and navigation links for Departments, Worldwide, How government works, Get involved, Consultations, Statistics, and News and communications. The main content area is titled "Register of licensed sponsors: workers" and includes a sub-heading "List of organisations licensed to sponsor workers under Tiers 2 and 5." It also displays publication information: "Published 13 November 2013" and "Last updated 17 September 2019 — [see all updates](#)". A "Documents" section contains a PDF titled "Tiers 2 and 5 register of sponsors" (2.63MB, 2009 pages) with a note that it may not be suitable for users of assistive technology. A "Details" section states: "This document lists Tier 2 and 5 sponsors. It includes information about the category of workers they're licensed to sponsor and their sponsorship rating." A "Related content" section lists several other documents, including "Guidance on application for UK visa as Tier 2 worker", "Register of licensed sponsors: students", "Applying for a UK visa: approved English language tests", "Sponsor a Tier 2 or 5 worker: guidance for employers", and "Guidance on applications for UK Tier 4 student visas". The Windows taskbar is visible at the bottom of the browser window.

- But how helpful is it?

Inspiring futures

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

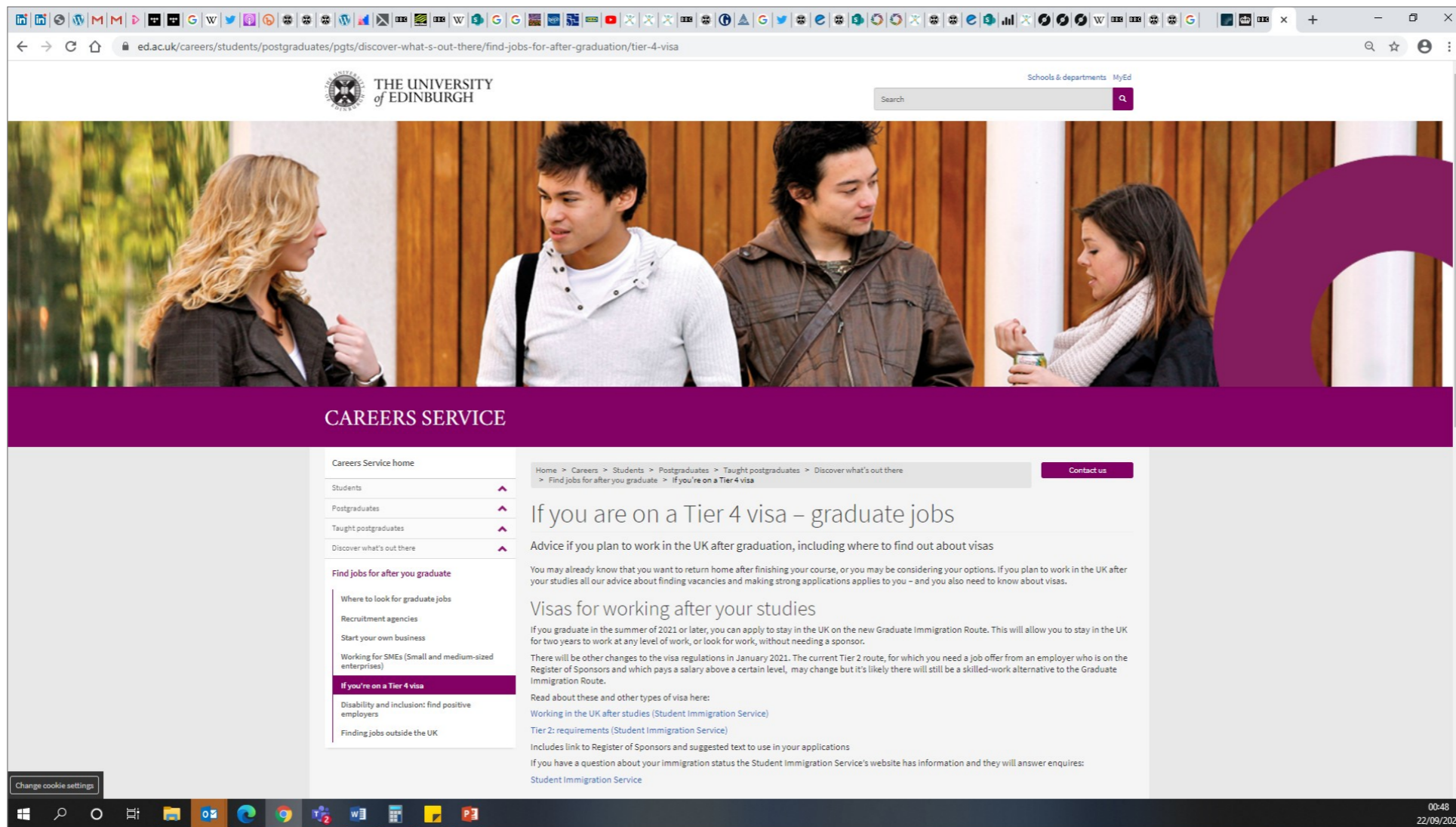


International students: hints & tips...

- 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

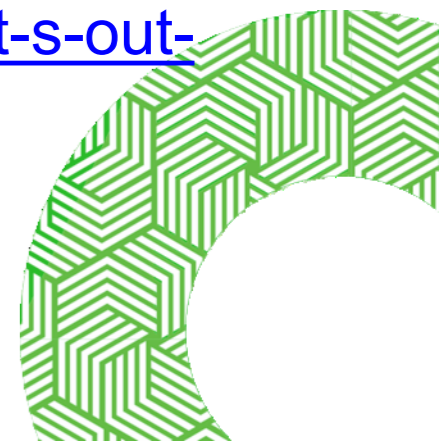


More advice for international students



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 text "CAREERS SERVICE" and a navigation menu on the left. 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 after graduation. The page includes a search bar, a "Contact us" button, and a "Change cookie settings" link. The bottom of the page shows the Windows taskbar with the time 00:48 and date 22/09/2020.

<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 banner features a dark orange background on the left with white text, and a yellow background on the right with white clouds and blue ladders. Three stylized figures are shown climbing ladders and looking through telescopes. The University of Edinburgh logo is in the top left corner.

THE UNIVERSITY OF EDINBURGH
Careers Service

Careers Week

11th - 15th October 2021

Featuring Careers Fair Online
Tuesday 12th and Thursday 14th October
11am - 4pm

Discover what's out there

Inspiring futures Find out more on MyCareerHub

Sponsored by
NEWTON

+ company presentations/events programme

- Check [MyCareerHub](#) for details and live updates



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>

Next week: Selling Yourself: Talking to Employers & Networking
Inspiring futures
<https://teaching.maths.ed.ac.uk/main/postgraduate-taught/employability/events-21-22>

Updated daily! Check weekly...

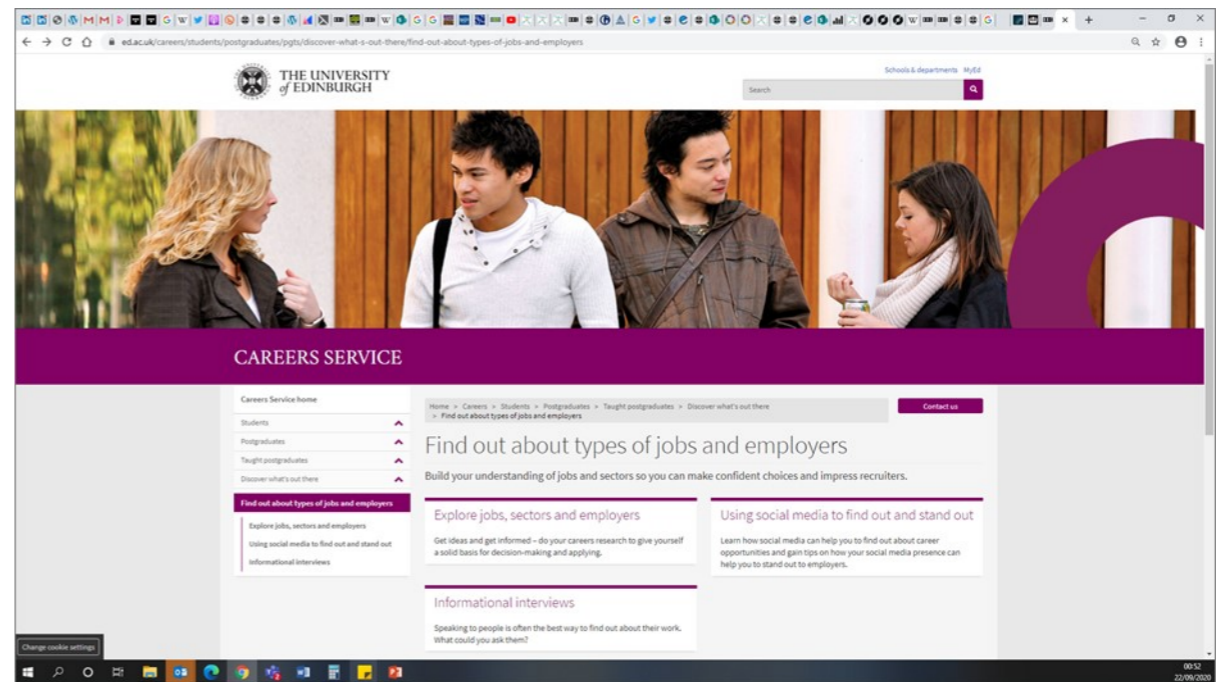


Inspiring futures



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!



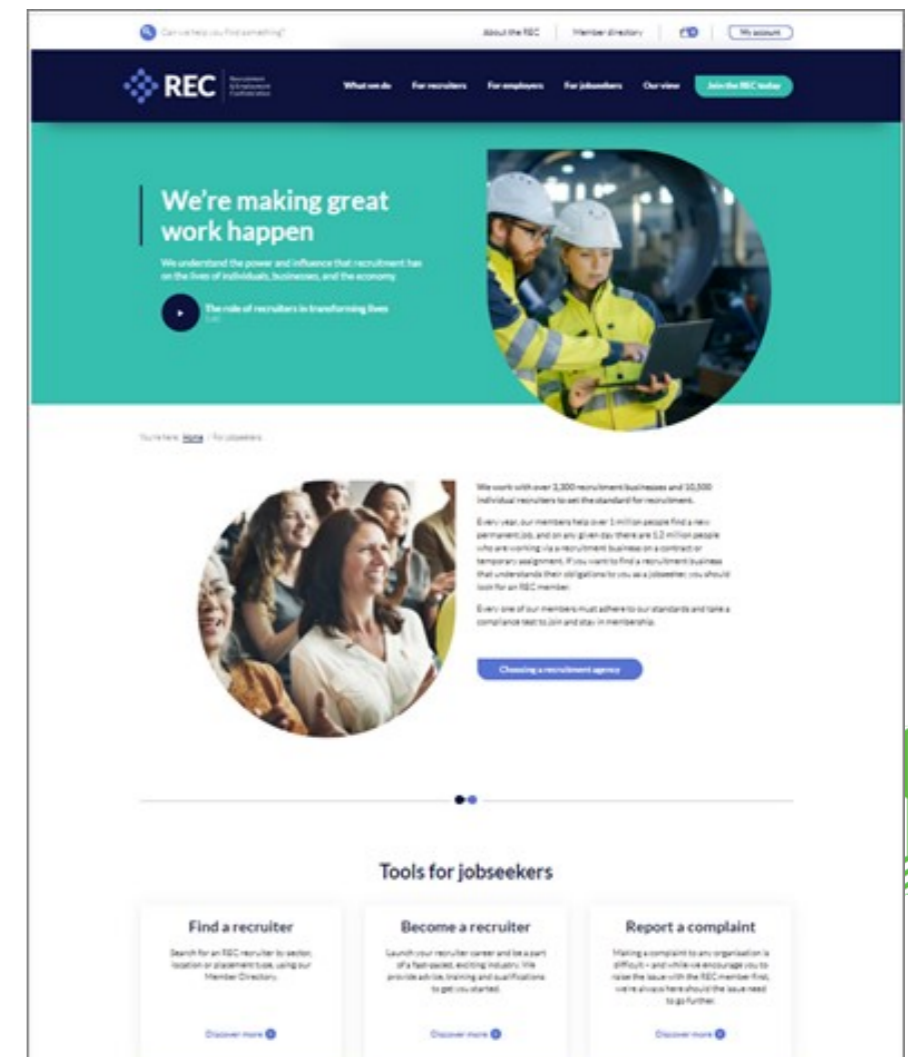
- The more you understand a job, the easier to articulate to an employer why the interests and how it matches your skills/interests/knowledge.

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



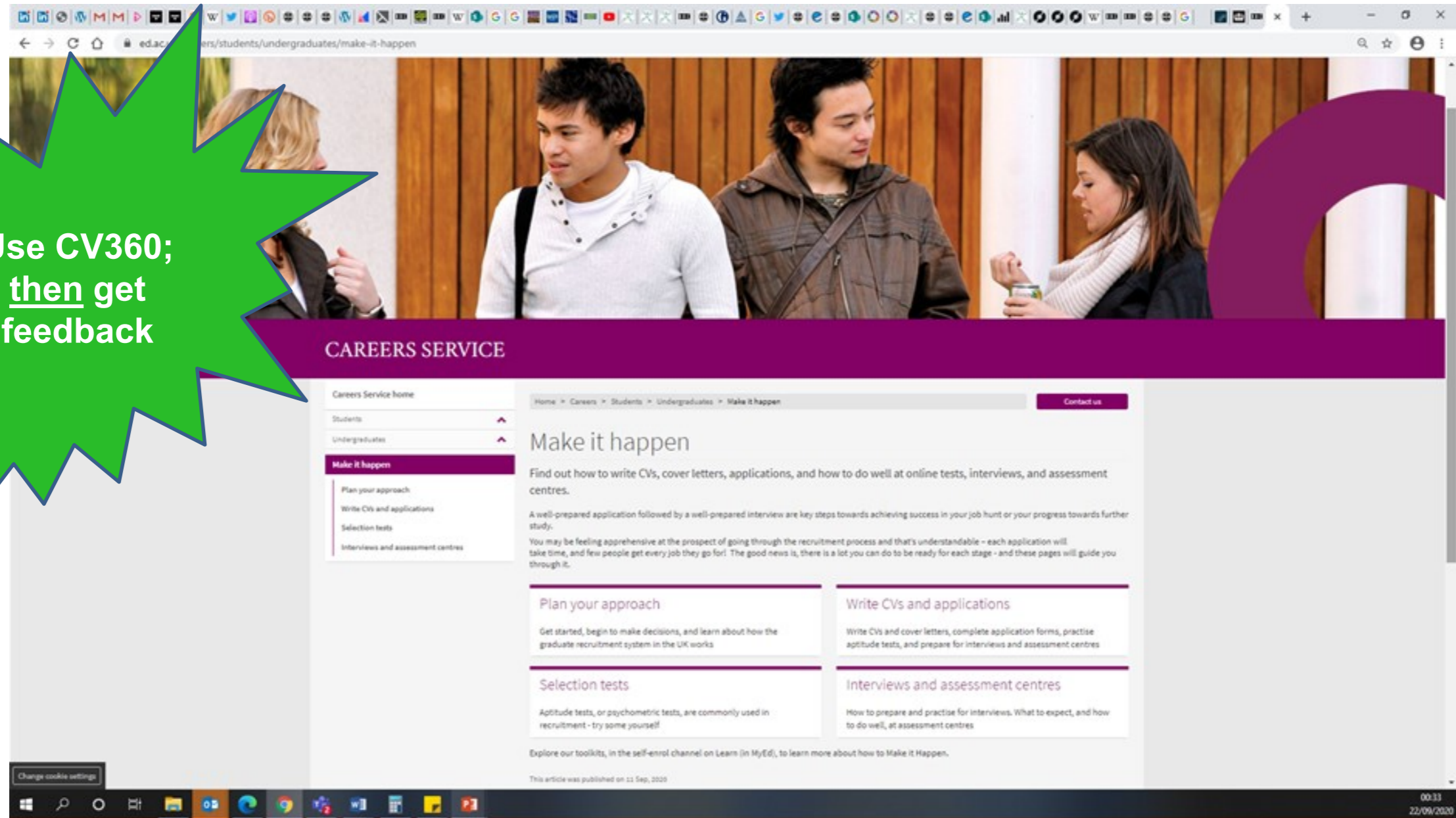
What about recruitment agencies?

- 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 like '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.

<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', each with a brief description of the service offered. A sidebar on the left contains a navigation menu with options like 'Students', 'Postgraduates', and 'Taught postgraduates'. 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

Home > Careers > Students > Postgraduates > Taught postgraduates

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

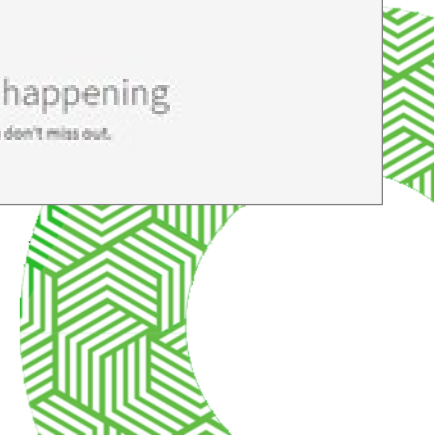
Talk to us

- 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



The screenshot shows the 'CAREERS SERVICE' website. The header is purple with the text 'CAREERS SERVICE'. Below the header, there's a navigation menu with 'Home', 'Careers', 'Students', and 'Quick links'. A 'Contact us' button is in the top right. The main content area is titled 'Quick links' and contains several sections with bullet points:

- Quick links**
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 and put you in a good position when you're ready to take the next step. We recommend you take the time to explore what's there! But we know that sometimes you're pushed for time, so here are pointers to the areas we're most often asked about.
We want to make it easy for you to get in touch with us, whatever you want to find out or discuss. You can:
 - Start a chat using Live Chat on our home page
 - Send in a question here:
 - MyCareerHub Ask A Question
 - Come to our online information and advice drop-ins, Monday - Friday 1-3pm
 - Information and advice drop-ins
- If you want to look for a job**
Lots of employers ask us to advertise their vacancies because they want Edinburgh students to apply. You'll find adverts for part-time jobs, internships, and jobs for after graduation here:
 - MyCareerHub OpportunitiesPut these job adverts into context by reading more, here:
 - Find jobs for while you're a student
 - Find jobs for after you graduate
- If you want feedback on your CV**
We're keen that you get the basics of your CV in place before asking us for feedback, so that we can concentrate on the content in our time together! Follow the advice here to get your CV off to a good start.
 - How to write your CV
- If you want to prepare for an interview**
Give yourself the best chance of being offered the job by preparing thoroughly in advance.
 - Interviews and assessment centres
- If you want to book an appointment to talk about your future**
Find out about our appointments system.
 - Appointments systemAll our appointments are offered online, for your convenience.
 - Book an appointment
- If you want to see what events and workshops are happening**
There are hundreds of careers and employability events each semester. Check out what's coming up so you don't miss out.
 - MyCareerHub Events

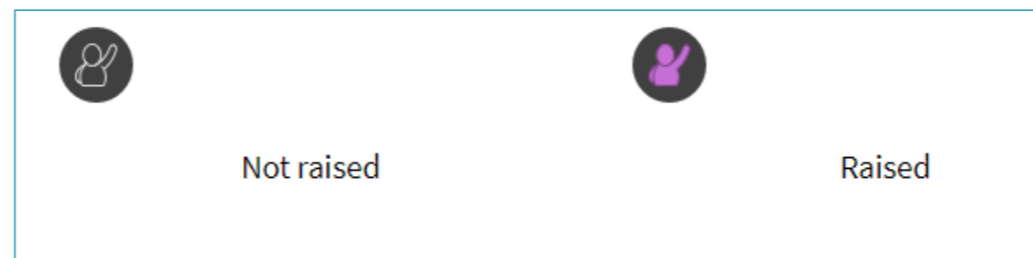


We will now end the recording.

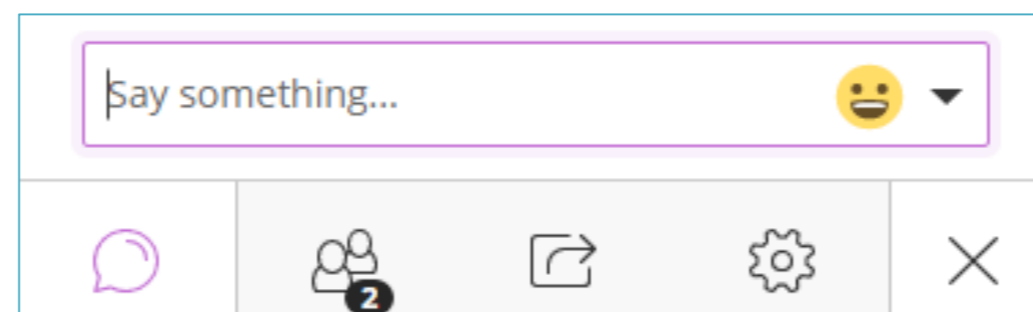


Any questions?

- 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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