Industrial Experience (IE)

What, Why, How, When, Where, Who?

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October 2019
What?
Careers Advice via Al Pacino & Keanu Reeves in *The Devil’s Advocate* (1996)

“Why become a Lawyer?”
“...because the law, my boy, puts us into everything. It's the ultimate backstage pass.”
“...because the law computer science, puts us into everything. It's the ultimate backstage pass.”
What are you good at?

• What do you like doing?
“Careers and jobs are challenging because (unlike school and University) there are no right answers”

Jonathan Black, Director of University Careers Service at Oxford University

amazon.co.uk/dp/1472137582
What makes a good job?

• (or what motivates you?)
What makes a good job?

Daniel Pink

ted.com/talks/dan_pink_on_motivation

1. Autonomy
2. Mastery
3. Purpose
4. ...And?
What?  

• What is IE?  
  – The industrial placement is a formal part of your studies, included in title of your degree  
  – The placement **must** offer you the opportunity to be involved in technical development (sometimes indirectly)
Why?

• Find out what you like / dislike
  – Year long interview (both sides)
  – Job offers are common...

• **BETTER** employment after graduating
  – see [www.unistats.com](http://www.unistats.com)
  – Higher starting salary
  – Reduce cost of degree
  – Easier and quicker to find the job you want

• better results, more confidence
  – Validates learning so far, motivates final year

• Fun!
When?

• Start applying **now**

• **Vacancies appear now to August 2019**
  – Big companies (before Christmas)
  – SMEs (afterwards)

• Most start June – September 2019
• Minimum 9 months, usually 12
  – (sometimes 15)

- Mostly UK but...
- See also map outside LF26
Where

IBM

amazon.com

BBC

ARM

Morgan Stanley

pwc

Schlumberger

Microsoft

facebook
Where? Industry club MCR

1. Science (CERN etc)
2. Technology (Google, Facebook, IBM etc)
3. Gaming & entertainment (Rare, Jagex, etc)
4. Financial services (mostly London)
5. Healthcare (GSK, AstraZeneca etc)
6. Aerospace, Defence & Manufacturing (e.g. Ford)
7. ... the long tail, FMCG etc
Where?

Permission to work for overseas students (Tier 4)
If the work placement is part of your studies e.g. carried out while you are a registered student of the University, then you do not need a work permit
Working in the UK after study

What are my options for working in the UK after study?

Most students will have immigration permission which extends for up to four months after you have completed your studies. If you want to stay on and work in the UK after this period in the UK, you will need to apply for immigration permission in one of the work visa categories.

Where do I start?

Please use the UKCISA and the UK Visas and Immigration websites for a full list and detailed explanation of the visa options and requirements and guidance on applying. We provide an overview of the main visa options and practical tips how to search and apply for jobs that meet the visa requirements on the following pages.
Where?

• Placements outside the UK
  – Multi-national Companies
    • Other companies will need to be verified
  – Needs more time to deal with Visa issues
  – For EU students taking a placement in other EU countries there may be extra funding
  – For non-EU students, visa details will need to be checked for the country concerned, some European countries have restrictions
  – [http://www.careers.manchester.ac.uk/international/](http://www.careers.manchester.ac.uk/international/)
Who?

• All degree programmes: academic rules
  – **MUST** be registered on IE
  – **MUST** get your placement approved by me (employability tutor)
  – Get me to sign off placement **BEFORE** you sign contract
How?

• If not already IE, fill in form via SSO
• Wednesday Waggle
How?

• A student with a salary paying fees
  • Home / EU
    – ERASMUS £1385
    – OTHERWISE £1850
  • International – half what you normally pay
  • Loans: you will be entitled to your student loan for the year you are on placement

See
http://www.studentsupport.manchester.ac.uk/finances/tuition-fees/fee-amounts/other-fees/
How

• Larger companies on campus
• Smaller companies send adverts
  – Approach them yourself
• Good strategy is to do both
How

- http://waggle.cs.manchester.ac.uk
Search internships and graduate opportunities on Gradcracker

78 employers | 269 opportunities

Gradcracker advertisers who recruit from Computing/Technology disciplines

CAPITA | Ultra Electronics | CGI | ACADEMY | bp | ARUP | Royal Air Force | Tata Steel

mace | Thales | WRC | InterTradeIreland | Chemring Technology Solutions | IE4S

Matt Macdonald | ALSTOM | Selex ES | EuroHappold Engineering | Imagination | General Dynamics | BAE Systems

Grow your career
Graduate and Industrial Placement Opportunities Open Now
Welcome to Your CareersLink account from The University of Manchester Careers Service

Log in for vacancies, events and applications advice appointments.

Follow the appropriate link to login according to your role below.

- **Current students**
  University of Manchester Students must login via the University central authentication service using their University computer username and password.
  Students of other Universities are not eligible for a CareersLink account.
  Login as a student

- **Manchester graduates**
  University of Manchester graduates must login with their CareersLink username and password.
  Login as a graduate

- **Organisations / employers**
  For more information, please see our guide:
  Registering your organisation and yourself on CareersLink
  Login as an organisation or employer

- **Manchester staff**
  Login as University staff

- **Careers Service staff**
  Login as Careers Service staff

- **Mentors**
  Login as a mentor

Get support for CareersLink at careerslink@manchester.ac.uk

Read our Information for Students and Graduates about using CareersLink
Several copies of the latest edition available from SSO (Kilburn Library, Computer Science)

Free PDF of old version floating around on internet

- hackerrank.com
- topcoder.com
- leetcode.com
- pramp.com
How: key dates

- PASS sessions every Monday at 12 Collab
- Kilburn careers fair next week
- Etc see UG events calendar
  
  https://goo.gl/qASvyK
Other employer

- Working in usa
- Employers liability insurance
- Public liability insurance
- Health and Safety policy
- Pay you a salary
How: networking

- Not what you know but who you know...
  - Students, alumni & PASS
  - Mabel and me
  - Careers service
  - Lecturers
  - Friends, family

- Approach businesses and organisations yourself e.g. via
  - Manchester Gold mentoring
  - Your COMP233 Software engineering mentors
  - Meet the Professionals events (see UG events calendar)
  - Hackathons etc
  - North West Tech Community Events [http://technw.uk](http://technw.uk)

- LinkedIn
  - @csmcr alumni [linkedin.com/edu/alumni?id=12671](https://linkedin.com/edu/alumni?id=12671)
  - Alumni tool [uk.linkedin.com/edu/the-university-of-manchester-12671](https://uk.linkedin.com/edu/the-university-of-manchester-12671)
  - Search your “2nd degree” connections – I’m happy to connect with students on LinkedIn if you find my network useful
  - DEMO
How: Salaries

• Typically £15k to £40k+

• Know what you are worth

• https://github.com/IgWod/interns-salaries-uk-2018
How

• If you have questions about -
  • Applications and Interviews
  • Accepting a placement
  • Signing Contracts
  • Email Duncan and Mabel (see below)

LF25

duncan.hull@manchester.ac.uk
0161 275 6186

Or ask Mabel, LF26,
Mabel.yau@manchester.ac.uk
How

• Students on placement
  – complete some small reports during the year
  – Will be visited ....
  – Should keep in touch ...

• More on this in May
How? Next steps

• What do you do?
  – Get feedback on your CV from as many people as possible
  – [http://git.io/mycv](http://git.io/mycv)
  – Check out the resources
  – Beware of time! Second year more demanding time-wise

• Good luck, there are lots of great opportunities out here!