

Careers and Employability Service

Additional resources and information for Aeronautical Engineering (AeroAstro)

WELCOME

This resource pack has been developed to help you research specific job sectors and find jobs or work experience. This is a competitive process, using Professional or Trade bodies can help you widen your pool of possible employers. Recruitment agencies can be useful for finalists who have left it late, or not been successful at interview.

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CAREERS ADVICE, INFORMATION AND EVENTS

- Some of the graduate publishers and job sites featured below also produce free hardcopy guides which you can collect from the Careers Centre in Building 37, eg TARGETjobs, GradCracker, Inside Careers Patent Attorneys, etc.
- www.southampton.ac.uk/careers/students/
- **How we can support you**
 - **Career Planning** for practical advice and actions to help you make decisions and evaluate your skills and preferences, including options outside engineering.
 - **Drop-in Service** to answer your quick queries or for referral to a guidance appointment
 - **Degree-Related Careers** for further subject information
- **Application Advice** for advice on all stages from CV and Psychometric tests to final interview
- **Events & Fairs**
 - Take advantage of the many employer presentations and networking events which take place on campus whether organised by Student Societies, your Faculty, or the careers service
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- [Prospects.ac.uk](https://www.prospects.ac.uk) - 'Types of jobs'
 - **What can I do with my degree?**
<https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree>
 Includes details of typical transferable skills developed during your studies
- **FEE Student Employability Blackboard** is used to capture specific updates from employers or other organisations targeting Faculty students, jobs, further study, bursaries, competitions, etc as well as copies of any slides and handouts linked to Careers input. A regular email alerts students to the latest updates. www.blackboard.soton.ac.uk

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JOB SEARCH

◦ EMPLOYER LISTING

This is a list of companies which UoS graduates have joined compiled from the annual Destination of Leavers of Higher Education survey carried out in the January after graduation; it is not an exhaustive list. Most graduates do take up an engineering or design role, but a small number move into a new field, eg finance or banking. You can filter it by subject area. Additions to the list are welcomed, eg from students who have done placements elsewhere. Please email careers@southampton.ac.uk with details, subject 'Engineering employers, resources handout'.

The listing is exclusive to UoS students, please access via the FEE Student Employability Blackboard site.
<https://blackboard.soton.ac.uk/webapps/login/>

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◦ JOB SITES

There are lots of jobs sites for engineering vacancies, this is just a limited selection which target graduates and students. Some of the sites cover work experience as well.

- **MyCareer Jobs Board and Events Calendar**, register job preferences and sign up to events, employer presentations and skills workshops <https://mycareer.soton.ac.uk/student/login.html>
- **FEE Student Employability Blackboard** - Jobs and work experience folder
www.blackboard.soton.ac.uk
- **Careers and Employability Service** <http://www.southampton.ac.uk/careers/index.page>
 - Job Hunting
 - Work Experience, including Excel Southampton Placements, Business Innovation Programme and Volunteering Bank
<http://www.southampton.ac.uk/careers/students/work-experience/index.page?>
- **Prospects** www.prospects.ac.uk
 - 'Jobs and work experience' for vacancy search. 'Job Profiles' or 'Job sectors' for information on most graduate occupations. Each job profile includes a generic job description, salary and conditions, entry requirements including skills looked for, training, career development, employers and vacancy sources and related jobs, plus case studies of recent graduates in this role.
 - A-Z of Graduate employers
 - 'What jobs would suit me?' to help narrow the field
- **Targetjobs** www.targetjobs.co.uk
 - Sector information includes engineering, construction and logistics
 - Profiles of employers by sector or A-Z
 - Graduate jobs for details of graduate and internship opportunities
 - Closing dates for popular graduate and placement schemes
- **Gradcracker** <http://www.gradcracker.com/> for graduate engineering and technical jobs, internships and industrial placements. Growing number of company hubs with details of

graduate schemes and placements, you can opt to follow companies for alerts.

- **Inside Careers** www.ipcareers.co.uk - Patent Attorneys
 - A career as a patent attorney is an option for engineering students
 - A-Z of companies with updated graduate vacancy and internship table
 - Inside Careers also offers advice and information on financial and consultancy careers www.insidecareers.co.uk
- **STEM Graduates** www.stemgraduates.co.uk Specialist recruitment agency for small and medium sized companies recruiting graduates in Engineering, Science, Maths and Technology. Also jobs board for major recruiters. Also specialise in placing MSc and PhD graduates
- **Brightrecruits** <http://brightrecruits.com/graduate/> , vacancies in science, engineering and research
- **Engineerjobs** <https://www.engineerjobs.co.uk/> , also run national careers fairs
- **Milkround** www.milkround.com , student and graduate job site, all sectors, Recruiter A-Z
- **STEP** www.step.org.uk/graduates-students/ Paid, project based internships for students and graduates with smaller organisations
- **TRS for Advanced Manufacturing & Engineering** <https://talentretention.biz/graduates/> , search by sector or company. CV upload facility
- **Where women work** <https://www.wherewomenwork.com/>

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- **PROFESSIONAL BODIES AND OTHER ENGINEERING ASSOCIATIONS**

These often have careers advice, jobs boards, sector insights, e-newsletters and free (or cheap) student memberships. Many have lists of members (individual or company) which can be used to track down work experience or graduate jobs via their jobs boards, or approached speculatively. In A-Z order:

- **Chartered Institute of Logistics and Transport** <https://www.ciltuk.org.uk/> CILT (UK) is the UK body of CILT which is represented in 30 countries. As a student you gain access to The Knowledge Centre and support in managing your career, eg mentoring.
- **Chartered Institution of Highways and Transportation** <http://www.ciht.org.uk/> is a learned society concerned specifically with land-based transport systems and infrastructure. Careers advice, jobs site and members' listings (individual and corporate)
- **Engineering UK** <http://www.engineeringuk.com/research/> - includes corporate membership listing
- **IEEE** http://www.ieee.org/education_careers/index.html which also have a UoS student branch www.ieee.ecs.soton.ac.uk which runs lots of employer presentations. Global professional association for technology professionals, current issues, jobs, advice
- **Institute of Acoustics** www.ioa.org.uk
Active in research, educational, environmental and industrial organisations, also job listing and list of members
- **Institute of Highway Engineers** www.theihe.org Professional body for Highway Engineers, includes Job listing
- **Institute of Marine Engineering, Science and Technology** www.imarest.org – Professional development for those above and below the waterline. IMarEST is the international professional body and learned society for all marine professionals
- **Institute of Physics and Engineering in Medicine** www.ipem.ac.uk

Promotes the advancement of physics and engineering applied to medicine and biology

- **Institution of Civil Engineers** www.ice.org.uk
Global organisation promoting civil engineering, includes Graduate Careers section and separate jobs board <http://icerecruit.com/> for jobs across all disciplines
- **Institution of Engineering Designers** www.ied.org.uk
Promotes engineering and product design in mechanical, electrical, civil and aeronautical fields
- **Institution of Engineering and Technology** www.theiet.org
Combines the Institutions of Electrical and Incorporated Engineers
- **Institution of Mechanical Engineers** (IMechE) <http://www.imeche.org/> – Dedicated to improving the world through engineering and providing an overview of accreditations, career paths and the UK Standard for Professional Engineering Competence (UK-SPEC). Also dedicated sections for the **Formula Student** competition and Scholarships and awards. Includes a directory of consultants
- **Institution of Structural Engineers** www.istructe.org Internationally recognised source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. Careers, professional development and Jobs board. Members' directory
- **Royal Aeronautical Society** (RAeS) <http://aerosociety.com/Careers-Education/aerospacecareer> – The world's only professional body dedicated to the entire aerospace community and providing an overview of RAeS careers, education and development support
- **Royal Institution of Naval Architects** <http://www.rina.org.uk/> - Professional development and Chartership information and support from the internationally renowned institute involved in all levels of design, construction, maintenance and operation of marine vessels and structures.
- **The Engineer** <http://www.theengineer.co.uk/students> is an online magazine inclusive of a careers section covering all sectors of engineering as well as current issues in engineering, blogs, forums and job listings.
- **The Engineering Council** www.engc.org.uk
Information for students, a listing of accredited degrees, a listing of member institutions, and additional services for members.

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○ TRADE, RESEARCH AND SECTOR BODIES OR ASSOCIATIONS

These sites are listed as a source of sector information and listings of companies or organisations which may provide work experience opportunities or graduate jobs.

- **ADS** <https://www.adsgroup.org.uk/> Trade organisation for UK Aerospace, Defence, Security and Space industries. Member directories, news and sector information.
- **Association of Consulting Engineers** <http://www.acenet.co.uk/abouttheindustry/452>
Represents firms in the UK consultancy and engineering industry
- **Auto Industry Insider** <http://www.autoindustryinsider.com/> Members list, newsletter and auto engineering in general, manufacturer profiles
- **Directory of Design Consultants** www.designdirectory.co.uk Covers broadcast, engineering, ergonomics, fashion, graphics, internet, interior and textile design
- **ESTA** Trade association for reduction in demand-side energy sector www.esta.org.uk
- **Motorsport Industry Association (MIA)** <http://www.the-mia.com/> Members list. Use the

Industry tab for information on careers and research

- **Oil and Gas Online** www.oilandgasonline.com Internet directory for the oil and gas industry, including job search
- **Petroleum Exploration Society of Great Britain** www.pesgb.org.uk Directory of members involved with oil and gas exploration, annual trade event welcomes students
- **SUBSEA UK** www.subseauk.com Trade association for the subsea industry, includes member directory, information about the opportunities in this diverse sector
- **The Association of Independent Research Technology Organisations** www.airto.co.uk Research and Development Organisations representing different industries and with an A-Z of member profiles
- **Women in science, engineering and technology** <http://www.stemwomen.net/> Blogs, partner groups, events, information about mentoring schemes, etc.

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○ ADDITIONAL SUBJECT SPECIFIC WEBSITES

• **Aeronautics / Astronautics**

Your degree is accredited by both the RAeS and the IMechE (see above)

- The RAeS also maintain a careers specific site 'Careers in Aerospace', this is a relative new site and resources are still developing. It does include a company directory which can be searched by location, career area and entry level, eg Graduate or Industrial Placements <http://aerosociety.com/Careers-Education/aerospacecareer>
- **AeroAstro (AeroAstroUG) Blackboard** – Advice and Opportunities specific to your programme of study www.blackboard.soton.ac.uk

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○ RECRUITMENT AGENCIES (focusing on Engineering – a few of many)

- **Advanced Resource Managers (ARM)** <http://www.arm.co.uk/job-seekers.aspx>
- **Faststream** www.faststream.com (Shipping and Maritime)
- **Graduate Recruitment Bureau** www.grb.uk.com
- **Matchtech** www.matchtech.com
- **Strgroup** www.strgroup.co.uk

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SCHOLARSHIPS, AWARDS AND BURSARIES

This is not a complete list of awards, but just a selection. Check with your tutor for further suggestions and look at other Professional and Accrediting Bodies. Some companies also have bursaries or competitions and offer scholarships to students, sometimes including, or as a result of, a placement.

- IMechE scholarships and awards are available to students who have already started their degree studies as long as the degree is accredited by the IMechE. The awards include scholarships and grants for academic and industrial placements abroad, as well as awards for Postgraduate study or research. See the website for details of specific awards available, including closing dates and eligibility. <http://www.imeche.org/About-Us/scholarships-and-awards>

- The Royal Academy of Engineering has several award schemes which students can apply for including the Engineering Leadership Standard and Advanced Awards, and the Aero MSc Bursary Scheme, a joint initiative with the Royal Aeronautical Society (RAeS).
<http://www.raeng.org.uk/grants-and-prizes/support-for-education-and-study/schemes-for-students>
- The Royal Aeronautical Society has a number of awards under the Centennial Scholarship banner, including the Aero MSc Bursary Scheme (see above) and final year undergraduate student awards. See full details on the website <http://aerosociety.com/Careers-Education/centennial>
- FISITA Travel Bursary Programme <http://www.yourfutureinautomotive.com/travel-bursary> . FISITA also sponsor a Student Congress as part of the World Automotive Congress, next one is 26-30 September 2016
- The ICE Awards for students and graduates include QUEST, the Kenneth Watson Travel Award and Emerging Engineers Award, search www.ice.org.uk for details
- IStructE Awards and research grants <http://www.istructe.org/education/scholarships-grants-and-bursaries>
- The SUT (Society for Underwater Technologies) Educational Support Fund <http://www.sut.org/educational-support-fund-scholarship-awards/>
- The Knowledge Transfer Partnership scheme (KTP) is an option for further study alongside a paid graduate job <http://ktp.innovateuk.org/>

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OVERSEAS RESOURCES (for work experience, study and jobs abroad)

See also the Scholarships, Awards and Bursaries section above.

- **GoinGlobal** – Country by country resource. Access UoS subscription via SUSSED
- **Prospects Working Abroad** http://www.prospects.ac.uk/working_abroad.htm
- **Prospects Studying Abroad** http://www.prospects.ac.uk/studying_abroad.htm
 - useful background information on countries and visas
- **Erasmus and university overseas study exchanges**
<http://www.southampton.ac.uk/engineering/undergraduate/study/exchanges.page?>
- **IAESTE** – The International Association for the Exchange of Students for Technical Experience
<http://www.iaeste.org/students/> British Council sponsored scheme
- **AIESEC Southampton** <https://www.unionsouthampton.org/groups/aiesec> Student-led society to facilitate global exchange work experience
- **The British Council** <http://www.britishcouncil.org/study-work-create>
- **Fulbright Commission** – for study in the USA including scholarships www.fulbright.org.uk
- **FEE Student Employability Blackboard** www.blackboard.soton.ac.uk – alerts to specific opportunities

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FURTHER STUDY, ACADEMIA

Each year about 10 – 12% of Engineering students go on to full-time further study, typically a PhD, EngD or MSc in a related subject. A few graduates go into teaching and study for a PGCE.

- **The Engineering and Physical Sciences Research Council** www.epsrc.ac.uk Leading funding

agency for research in the engineering and physical sciences. Thinking of research? Find out about current priorities and partner organisation. The EPSRC does not directly award studentships, but they do set eligibility criteria

- **Science & Technology Facilities Council** <http://www.stfc.ac.uk/> Research Council supporting seven distinctive areas of research. Another useful sources of background information for those thinking of a career in research or PhD.
- **University of Southampton**
 - Existing students may be eligible for bursaries <http://www.southampton.ac.uk/courses/how-to-apply/postgraduate-applications.page>
 - Postgraduate opportunities in the Faculty of Engineering and the Environment <http://www.southampton.ac.uk/engineering/postgraduate/index.page?>
- **Prospects** www.prospects.ac.uk/links/pgdbase
General information and database of postgraduate programmes, free directory available from the Careers Centre in Building 37
- **Postgrad** <http://www.postgrad.com/>
- **Findaphd** www.findaphd.com , one way to find postgraduate research degrees, PhD studentships and scholarships, also linked sites for Masters courses, Postdoc and academic opportunities
- **Jobs.ac.uk** www.jobs.ac.uk will give access to academic jobs in the UK, plus KTP (Knowledge Transfer Partnership) and PhD/EngD opportunities. Includes information on training and careers

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Note: Similar handouts available for (AeroAstro Engineering, Mechanical Engineering, Ship Science, Civil Engineering, Acoustical Engineering, Transport Planning, Energy & Environmental Science