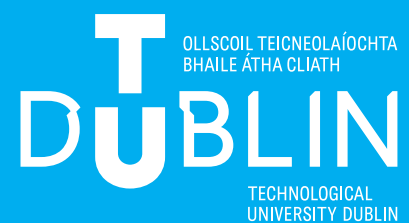


# Elec Services & Energy Management

Your Careers Adviser  
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## Skills developed in college

You've developed a range of skills through your education, work experience and personal interests and achievements.

Understanding what skills you have to offer and like to use can help you understand what you want in a career, as well as providing key information for job or further study applications.

In terms of securing a job, academic qualifications alone will not guarantee success. Evidence-based skills sections on your CV can demonstrate the broad range of qualities you have to offer employers.

Opposite are some of the main skills you may have developed while in college:

- **Communication skills, both verbal and written**  
Expressing ideas effectively and conveying information appropriately and accurately. Influencing others by expressing self effectively in a group and in one to one situations. Showing a range of verbal and nonverbal signals that the information being received is understood.
- **Teamwork/working with others**  
Working effectively and confidently within a group to achieve a common goal or task. Including understanding your role within the team, and listening and supporting other team members.
- **Problem-solving ability**  
Identifying, prioritising and solving problems, individually or in groups; possessing the ability to ask the right questions, sort out the many facets of a problem, and contribute ideas as well as answers regarding the problem.
- **Time-management skills/ability to meet deadlines**  
Managing several tasks at once; being able to set priorities and to allocate time efficiently in order to meet deadlines.
- **Planning and organising**  
Establishing a course of action for self and/or others to accomplish a specific goal. Planning proper assignments of personnel and appropriate allocation of resources.
- **Leadership skills**  
Motivating and taking responsibility to lead other people, in order to achieve set goals and objectives.
- **Initiative & self-management**  
Identifying opportunities and being proactive in putting forward ideas and potential solutions. Self-disciplined and self-motivated, in the pursuit of studies and professional practice.
- **Ability to make quick decisions/work under pressure**  
Making decisions and taking action. Maintaining performance under pressure and/or opposition.

You may also have developed a wide range of technical/specific course related skills

## Types of employers/industry sectors

Some of the main types of employers/industry sectors in which Elec Services and Energy Mgmt graduates work include:

- Renewable Energy Product and Service Suppliers:
- Suppliers, manufacturers or consultants in the area of PV and Solar Thermal Energy, Wind Energy, Geothermal Energy, Bioenergy
- Energy Management Companies involved in:
- Consultancy, Auditing, Metering, Building Energy Management Systems and Facilities Management, Bureaus, ESCOs, Energy Agencies
- Building Service and Technology Providers:
- Air-conditioning, air tightness, district heating, insulation, HVAC, lighting, heating and cooling, monitoring and targeting, motors and drives, refrigeration, compressed air, process specialists, heat recovery, ventilation
- Energy Utilities, Suppliers and Providers:
- State Utilities, Gas/Electrical Suppliers, Independent Power Producers, Energy Service Companies, Local authorities, Renewable Energy Developers, State Utilities, Agents and Distributors, Original Equipment Manufacturers
- Building, Design and Development professionals:
- Architects, Building/Consulting Engineers, Development companies, Plant Owners and operators, Mechanical and Electrical contractors/designers, Lighting Designers
- Energy Users in Commercial, Industrial and Public Sectors:
- Offices, Retail Units, Hotels, Sports and Leisure Centres, Community Centres, Healthcare/Hospitals, Pharmachem, Food and Agri, Mining, Forestry and Timber, Electronics, Local Authorities, Third level Institutions, Waste and Water Pumping, Small and Medium Enterprises, Defence Forces, Broadcasters, Telecommunication companies, Petrochemical industries
- Transport Organisations
- Road and rail networks, Electric and Hybrid Vehicle Manufacturers
- Professional Associations/Environmental Agencies:
- Government Agencies/Voluntary/NGOs
- Education/Training bodies
- Energy Technology and Software Development
- R+D companies

For sector information see:

- [www.gradireland.com](http://www.gradireland.com)
- [www.careersportal.ie](http://www.careersportal.ie)
- [www.prospects.ac.uk](http://www.prospects.ac.uk)
- [www.targetjobs.co.uk](http://www.targetjobs.co.uk)

## Career options with your course

Some of main occupations and job profiles secured by Elec Services and Energy Mgmt graduates include:

- Electrical Services Engineer
- Electrical Services Designer
- Electrical Engineer
- Energy Technologist
- Energy Engineer
- Energy Management Consultant
- Energy Services Consultant
- Energy Business Manager
- Sustainable Building Design
- Energy Manager
- Waste Management Officer
- Energy Procurement Consultant
- Wind Energy Engineer
- BER Assessor
- Building Services Engineer
- Consultant: Designing Energy Efficient Buildings
- Project Manager
- Trainer/Teacher
- Power Transmission Engineer
- Maintenance Engineer
- Broadcast Engineer
- Lighting Designer
- Data Services Engineer
- Landfill Engineer
- Renewable Energy Consultant
- Technical Sales Engineer
- Solar Operations Engineers
- Thermal Engineer (Thermodynamics)
- Product Manager (Energy Technology)
- Micro Hydropower System Installer

For occupation information see:

- [www.gradireland.com](http://www.gradireland.com)
- [www.careersportal.ie](http://www.careersportal.ie)
- [www.prospects.ac.uk](http://www.prospects.ac.uk)
- [www.targetjobs.co.uk](http://www.targetjobs.co.uk)

## Employers who have recruited in your area

Companies who have recruited Elec Services and Energy Mgmt graduates:

- ADI Group
- Arup
- Bord Gais
- Bilfinger
- Control Soft
- DAA
- Endeco Technologies
- Hoare Lea
- Wolf Process Automation
- JV Tierney
- Kingspan Solar
- Mater Hospital
- Mercury Engineering
- Premium Power
- SEPAM
- Feeney Electrical
- DSSR Consulting Engineers
- OPW
- Rotary ME Services
- Four Seasons Hotel
- Hivar Engineering

## Job Hunting

It is important that you access both the advertised and hidden jobs market and use any and every means available to you to job hunt effectively.

## Advertised Jobs

Most University and IT Careers Services have jobs listings on their websites:

[www.tudublin.ie/jobscene](http://www.tudublin.ie/jobscene)

Graduate programmes and immediate vacancies

[www.prospects.ac.uk](http://www.prospects.ac.uk) & [www.targetjobs.co.uk](http://www.targetjobs.co.uk) <http://www.gradcracker.com/engineering-jobs>

Graduate jobs UK

[www.gradireland.com](http://www.gradireland.com)

Immediate jobs/Summer/Graduate programmes

[www.mondotimes.com](http://www.mondotimes.com)

Local and national press

[www.publicjobs.ie](http://www.publicjobs.ie)

[www.localgovernmentjobs.ie](http://www.localgovernmentjobs.ie)

Public service

[www.irishjobs.ie/agencies](http://www.irishjobs.ie/agencies)

Complete list of recruitment agencies/online recruitment sites

Company websites

[www.tudublin.ie/careers](http://www.tudublin.ie/careers)

## Other

- Careers fairs – Gradireland Fair – Autumn and Summer Fair, plus many others.
- Notice boards/Student email account/Lecturers
- Company Presentations
- Specialist Magazines & Publications, e.g. Engineers Ireland, Enterprise Ireland, Building Services News, Renewable Energy Focus News (online), [www.edie.net](http://www.edie.net) (jobs section and newsletter), Technology Ireland

## Voluntary Sector/Charities

[www.activelink.ie](http://www.activelink.ie)

Voluntary Sector/Charity/NGO vacancies in voluntary sector

[www.volunteeringireland.com](http://www.volunteeringireland.com)

[www.dochas.ie](http://www.dochas.ie)

Association of non-governmental development organisations

[www.comhlahm.org](http://www.comhlahm.org)

Volunteering opportunities

[www.wheel.ie/directory](http://www.wheel.ie/directory)

Directory of voluntary and community organisations

## Unadvertised Jobs

### Networking

- Networking – who is in my network? – classmates, lecturers, alumni, family, neighbours, colleagues, clubs and societies, TU Dublin Career Development Centre, professional bodies
- Job shadowing/informational interviewing/work experience
- Informational Interviewing/Shadowing
- College work – projects, thesis, placement, guest speakers, student website
- Societies – e.g. guest speakers/events
- Attend events, conferences, short courses, trade shows (e.g. professional bodies, etc), [businessandleadership.com](http://businessandleadership.com) (events), cross industry events, i.e. TechBrew/ISIN events/Dublin start-up Commissioner, Engineersweek.ie (Feb), The Energy Show (March), etc.
- Join Alumni Association/Linked-in TU Dublin Alumni group//Related groups on linked-in
- Meet up groups, e.g. - 'Tech for good - Dublin'
- First Destination Reports – previous graduates - employers
- Placements – where did previous students go

### Contact companies directly

- Speculative applications + cold calling. Think about your offering.
- Utilise directories – Kompass.com, IDA, professional bodies, Golden Pages, [www.energyireland.ie](http://www.energyireland.ie) [www.energy.sourceguides.com](http://www.energy.sourceguides.com),
- Contact companies before holiday times – Christmas and Summer
- Get a foot in the door
- Contact companies with ideas of your own to assist their business / save them money

## Start Ups:

- Start-up companies – [www.startupdublin.com](http://www.startupdublin.com), [dublinstartupjobs.com](http://dublinstartupjobs.com)
- FDI and indigenous – [www.makeitireland.com](http://www.makeitireland.com), [www.its happening here.ie](http://www.its happening here.ie)
- <https://angel.co/> - start up jobs worldwide

## Track companies

- Scholarships/Competitions/Blogs / Guest lecturer
- Check out Labour Market trends, [www.careersportal.ie](http://www.careersportal.ie), IDA, IBEC (Retail/Financial Services), [www.tudublin.ie/careers](http://www.tudublin.ie/careers) (labour market news)
- Search newspaper business pages on-line to get success stories on businesses as they are growing – TU Dublin Careers website (labour market news)
- Check out industry award recipients,
- Best Workplaces in Ireland (download on [gradireland.com](http://gradireland.com))

## Other proactive ideas

- Enter competitions / scholarships
- Get Work Experience / internship
- Social networking sites (facebook, twitter, LinkedIn, Facebook, Blog, Discussion Groups)
- Linked-In (set up a profile, link to others, search for companies - employees who have
- Linked-in profiles, advertised jobs)
- Follow & target companies on facebook, linked-in, twitter

For more information on how to go about finding a job and job-hunting sites, [See www.tudublin.ie/careers](http://www.tudublin.ie/careers)

## Interviews

For more information on how to perform in interviews, [See www.tudublin.ie/careers](http://www.tudublin.ie/careers)

## CVs/Cover letters and applications

For information on how to put together a great CV/Cover Letter or Application, [See www.tudublin.ie/careers](http://www.tudublin.ie/careers)

## Useful links (e.g. Company Databases, Professional Bodies, LinkedIn Groups)

This list contains links to some of the most useful websites for your course including professional bodies and associations, employer directories, information sources and LinkedIn groups.

### General websites — useful links

- [www.iei.ie](http://www.iei.ie) Institute of Engineers in Ireland – CV posting (See Energy Network)
- [www.cibse.org](http://www.cibse.org) Chartered Institute of Building Services Engineers
- [www.acei.ie](http://www.acei.ie) Association of Consulting Engineers of Ireland (ACEI)
- [www.seai.ie](http://www.seai.ie) Sustainable Energy Authority of Ireland
- [www.energyireland.ie](http://www.energyireland.ie) Energy Ireland
- [www.iwea.com](http://www.iwea.com) Irish Wind Energy Association
- [www.bwea.com](http://www.bwea.com) British Wind Energy Association
- [www.greenfutures.org.uk](http://www.greenfutures.org.uk) Green Futures
- [www.greencareersguide.com](http://www.greencareersguide.com) Green Careers Guide
  
- Associations of Irish Energy Agencies - [www.aiea.ie](http://www.aiea.ie)
- Department of Communications, Energy & Natural Resources - [www.dcenr.gov.ie](http://www.dcenr.gov.ie)
- Commission for Energy Regulation - [www.cer.ie](http://www.cer.ie)
- Irish BioEnergy Association - [www.irbea.org](http://www.irbea.org)
- Irish Hydropower Association - [www.irishhydro.com](http://www.irishhydro.com)
- Environmental Information Portal - [www.envirocentre.ie](http://www.envirocentre.ie)
- The Irish Solar Energy Association - [www.managenergy.net/actors/881](http://www.managenergy.net/actors/881)
- Solar Energy Society of Ireland - <http://solarireland.wordpress.com/>
- Geothermal Association of Ireland - [www.geothermalassociation.ie](http://www.geothermalassociation.ie)
- Renewable Energy Association - <http://www.r-e-a.net/>
- Centre for Sustainable Engineering - [www.cseng.org.uk](http://www.cseng.org.uk)
- Renewable Energy Institute - [www.energyinst.org](http://www.energyinst.org)
- Geothermal Energy Association - [www.geo-energy.org](http://www.geo-energy.org)
- National Hydropower association (US) - [www.hydro.org](http://www.hydro.org)
- British Hydro Power Association - [www.british-hydro.org](http://www.british-hydro.org)
- European Ocean Energy Association - [www.eu-oea.com](http://www.eu-oea.com)
- Electro-Technical Council of Ireland Limited - [www.etc.ie](http://www.etc.ie)
- Electrical Manufacturers and Distributors Association of Ireland - [www.emda.ie](http://www.emda.ie)
- Technical, Engineering & Electrical Union - [www.teeu.ie](http://www.teeu.ie)
- Power Electronics industry group - [www.peig.ie](http://www.peig.ie)
- Register of Electrical Contractors of Ireland - [www.reci.ie](http://www.reci.ie)
- The Institution of Engineering and Technology - [www.iet.org.uk](http://www.iet.org.uk)
- The Institution of Incorporated Engineers (IIE) - [www.iie.org.uk](http://www.iie.org.uk)
- The Institution of Electrical Engineers - [www.iee.org.uk](http://www.iee.org.uk)
- Engineering Council UK - [www.engc.org.uk](http://www.engc.org.uk)

## Other job hunting websites for your course:

- IDA Ireland (Company Search & Jobs news)- [www.idaireland.com](http://www.idaireland.com)
- Wind Industry Vacancies - [www.windindustryjobs.com](http://www.windindustryjobs.com)
- Environmental Engineering Vacancies - [www.environmentjob.co.uk](http://www.environmentjob.co.uk)
- Energy Engineering Vacancies (US/Canada) - [www.energycentraljobs.com](http://www.energycentraljobs.com)
- Green Vacancies - [www.greenjobs.ie/](http://www.greenjobs.ie/)
- Renewable Energy Vacancies - [www.renewableenergyworld.com](http://www.renewableenergyworld.com)
- Engineering Vacancies - [www.r-e-a.net](http://www.r-e-a.net)
- Green Careers Guide (US) - [www.greencareersguide.com](http://www.greencareersguide.com)
- Engineering Vacancies [www.thecareerengineer.com](http://www.thecareerengineer.com)
- Engineering Vacancies <http://jobs.theengineer.co.uk/>
- New Scientist Jobs (Science, Tech & Eng Vacancies) <http://jobs.newscientist.com/en-gb/>
- Engineering Internships UK [www.e4s.co.uk](http://www.e4s.co.uk)
- Institute of Engineering and Technology Jobs Site <http://engineering-jobs.theiet.org/>
- Engineering vacancies UK and worldwide [www.justengineers.net](http://www.justengineers.net)
- Top Engineering Jobs Website <http://www.topengineeringjobs.com/jobs/design/>
- Engineering Vacancies [www.bulldog.co.uk](http://www.bulldog.co.uk)
- Engineering website for students - [www.graduatingengineer.com/](http://www.graduatingengineer.com/)
- [www.construction-jobs.ie](http://www.construction-jobs.ie) Engineering jobs in construction
- Engineering Vacancies (.ca – Canada; .com.au – Aus) [www.simplyhired.ie](http://www.simplyhired.ie)
- Engineering Vacancies (Europe) [www.euroengineerjobs.com](http://www.euroengineerjobs.com)
- European Graduate Career Guide and Job Opportunities- [www.eurograduate.com](http://www.eurograduate.com)
- European Job Mobility Portal (EURES) - [www.ec.europa.eu/eures](http://www.ec.europa.eu/eures)

There are many relevant groups on LinkedIn – do a keyword search and request to join those of interest to you. Some examples:

LinkedIn Groups: Powering Ireland the Smart Way  
Wind & Wave Energy Ireland  
Irish Energy Ireland

## ENTREPRENEURSHIP

- Freelancing/Work experience/Self-employment/Start-Up <http://www.dit.ie/careers/studentsgraduates/interestedinselfemployment/>
- TU Dublin Hothouse - [www.dit.ie/hothouse/](http://www.dit.ie/hothouse/)
- Local Enterprise Office - [www.localenterprise.ie](http://www.localenterprise.ie)
- The Digital Hub - [www.thedigitalhub.com](http://www.thedigitalhub.com)

## Further Study

Are you considering further study or training? See [www.tudublin.ie/careers](http://www.tudublin.ie/careers) for comprehensive information

Some examples of further study programmes undertaken by graduates of your course:

- MSc Energy Management, TU Dublin
- MSc Renewable Energy, NUI Maynooth
- MSc Business and Entrepreneurship, TU Dublin
- MSc Applied Building Information Modelling and Management, TU Dublin
- MSc Environmental Health and Safety, TU Dublin

## Conversion courses

Some graduates find that their primary degree did not meet their expectations, either vocationally, academically or personally, and seek change career direction. Conversion courses offer the opportunity to diversify into another chosen career area while meeting the necessary entry requirements for that discipline. However, it should be noted that this is not the case for all disciplines e.g. disciplines such as science and engineering will require an undergraduate degree in that discipline.

## Careers open to all disciplines (Including 'Paths Into...' Series)

Many graduate vacancies don't require specific degree subjects as possession of a degree is taken as evidence of intellectual ability. What is more important to the potential employer is the range of transferable skills and experience you can demonstrate.

Many graduate training programmes take final year students from a wide range of disciplines, register with the [Career Development Centre's Jobsence](#) for a full list of programmes. Here is a range of career areas that are potentially open to graduates of all disciplines. It's important to note that some of these options may require further study either on the job or beforehand.

If you are considering diversifying or changing career direction a postgraduate conversion course may be a viable option.

Some examples of career areas open to students of all disciplines:

- Teaching & Education
- Financial Services & Accounting
- Marketing, Advertising and PR
- Retail, Sales and Customer Service
- Banking, insurance and financial services
- Charities and voluntary sector
- Fund management / administration and investment banking
- Human resources, recruitment and training
- Management consulting
- Management, business and administration
- Media and publishing
- Public sector and civil service
- Social, community and youth

For further information see: [www.gradireland.com/career-sectors](http://www.gradireland.com/career-sectors)

## Self Employment

Ever thought of being your own boss? Think you have an innovative product or service idea that could have commercial value? Want to commercialise your research? See [www.tudublin.ie/careers](http://www.tudublin.ie/careers)

## Other Options (e.g. Time out, travel etc.)

Volunteering and working with communities with is a great way to gain valuable real world experience, to develop new skills, to meet new people, to do something worthwhile and to improve your employability. For more

details, see [www.tudublin.ie/careers](http://www.tudublin.ie/careers).

## Labour Market Information

For information on the latest labour market trends see [www.tudublin.ie/careers](http://www.tudublin.ie/careers).

## Additional Information/Advice

For any query you might have, please do not hesitate to get in touch with us.