



Your Degree What Next: *Biomedical Engineering*

What can I do with my Biomedical Engineering degree?

Biomedical engineering graduates primarily pursue careers in the medical technology sector. You can also find employment in clinics and hospitals where you can work as a clinical engineer, responsible for complex, expensive diagnostic equipment and laboratories. There are many opportunities around Ireland, as Ireland's medical technology sector has evolved into a global leader for medical device and diagnostic products, with 13 of the top 15 global Medical Technologies companies located here. Ireland has over 450 companies involved in developing, manufacturing and marketing medical devices, who together employ 38.000 people and have exports annually of over €12bn. These companies have a strong demand for high quality graduates at the Masters and PhD level because of the high technical level of their products, so you could also consider further specialising by doing a Masters or PhD.

Typical job titles and employer of biomedical engineering graduates include:

Roles	Employers
Biomedical engineer	Abbott
Quality engineer	Bayer
Clinical engineer	Becton Dickinson
Data scientist	Boston Scientific
Research and development graduate engineer	Johnson & Johnson
Verification and validation engineer	Medtronic

While these are the types of career paths graduates of your course typically enter, many graduate roles are open to graduates of all disciplines, so your options are much broader than those related strictly to your course. If you're not sure what you'd like to do, check out the career planning resources on the Careers Service website and book an appointment with your careers consultant.

Useful Resources

The organisations and professional bodies listed below are useful resources for career / sector specific information:

Professional Bodies and Useful Sites	Resources
The Irish Medtech Association	gradireland (IE)
Biomedical and Clinical Engineering Association of Ireland	Targetjobs (UK)
Engineers Ireland	Prospects (UK)
Silicon Republic	Sciencemag (Global)
	Vault Career Insider (Global)

Graduate attributes and transferrable skills you can develop at Trinity

You gain a wide range of skills and attributes while at College, through academic study, clubs and societies, voluntary work, student politics, work and other commitments. These are important to recognize as they inform your career decisions and are a critical ingredient in your applications for postgraduate study and jobs.

Here are some skills you can gain :

1. Critical Thinking - The most fundamental part of a university education is learning to work on your own and to make independent judgments. You have to discover the information that you need to analyse complex questions and develop your ideas about them and to present your arguments clearly and persuasively.

2. Teamwork - Learning to work as part of a team is an important skill; sharing the workload, agreeing roles and working as a team to develop ideas, analyse information and present a coherent group argument.

3. Independent Research - You will have learnt how to use the library and other complex information resources and coordinate information from a wide variety of sources.

4. Logical argumentation - You will know how to bring together facts and arguments in order to answer a specific ques-

5. Time and project management - By working on assignments and studying for exams you will have developed the ability to revise and consolidate your work and know how to extract the essential points from a mass of information. You will also have learned how to manage your own time and to work under pressure of deadlines.

6. Verbal communication - You will know how to present your ideas orally and to contribute constructively to discussions.

7. Written communication - You will have had the opportunity to present your ideas in writing accurately and concisely, using convincing arguments which are based on solid evidence; responding flexibly to different types of questions and expressing your thoughts concisely; carrying out in-depth research on a specialised topic and develop the sustained writing skills needed.

8. Digital Skills - You will have the opportunity of developing your computer skills both from typing up your own essays and papers and from undertaking searches on the web & using databases.

9. Personal Development – You are managing the learning required for a degree and recognising the gaps in your understanding and ensuring that these are addressed in ways that best suit your learning style.

How can the Careers Service help me?

The Careers Advisory Service supports students in exploring their career options and connects students with employers. You can book an appointment with your careers consultant to help you deciding your next step in your career.

Login to MyCareer at www.tcd.ie/careers and book your appointment today.

Contact Us

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