CAREERS THAT STARTED IN ICT
Information and Communications Technology is changing the world within which we live. What was impossible yesterday has the potential to revolutionise the way we live tomorrow.

ICT is a fast evolving discipline, with constant technological advancements occurring. As the ICT industry continues to grow, so does the need for professional ICT graduates. Australia is facing a shortage of qualified professionals who are able to meet this ever-increasing demand. High school provides the perfect opportunity for you as a student, to familiarise yourself with subjects which encompass ICT.

This book showcases a number of UQ alumni who have pursued a career within the vast industries that incorporate ICT. As you will discover, ICT qualifications can open the door to a wide array of careers in any number of industries. As the world of ICT evolves, so do the career opportunities available.

I invite you to take advantage of the academic advisors and student mentors that are available as you navigate your way through UQ’s study options. ICT is changing the way the world functions – you too, can be part of this change.

Professor Paul Strooper
Head of School
Information Technology and Electrical Engineering
Every day, over three million people arrive safely at their flight destination thanks to ICT.
What isn’t ICT these days?

From updating your status on Facebook, to website design; from calling your friend on your mobile phone to withdrawing money from an ATM, ICT plays an important role in our day-to-day lives. Information and Communications Technology (ICT) provides us with means of entertainment, business solutions, communicational methods and even appliances which allow us to live our lives with ease.

ICT encompasses all forms of computer, communications equipment and software used to create, design, store, transmit, interpret and manipulate information in its various formats.

ICT allows our world to function and evolve. Without ICT, the improvement and development of our communities would not be possible. ICT is ever-evolving, and the industry needs people who are flexible, creative and unafraid of change. As technology advances, what was impossible yesterday can be a reality tomorrow. So what ground-breaking and innovative technological advance will you be part of?
As ICT evolves, so do the resources and learning facilities available to students at UQ.
As a growing discipline, ICT offers you diverse career opportunities and provides you with the opportunity to play an active role in shaping the future of the world. A degree in ICT can lead to a career which spans across the globe. Regardless of the country, ICT plays an active role in its development and day-to-day functioning.

According to Job Outlook, an Australian Government initiative, there are a number of employment avenues within the area of ICT, all of which are expected to grow within the next ten years. This growth means your chances of employment upon graduation are extremely promising, with qualified ICT graduates in high demand. As a nation, Australia is facing a widening gap between the demand for skilled ICT workers and the availability of qualified professionals. The skills which you acquire in an ICT related degree can be applied to everything from satellites to Smartphone applications, CT scanners to computer games.

Your degree in ICT can lead to a number of career prospects, a few of which are outlined below.

All organisations from hospitals to hairdressers require ICT solutions in one form or another. Skills acquired through a degree in ICT are transferrable across different jobs and industries.

You never know where a degree in ICT can lead, or what sort of technological advancement you might invent. The possibilities and inventions created through ICT are endless. The future of the ICT industry is in your hands.
DID YOU KNOW?

ICT is the backbone for keeping trains on schedule and supplying power to a city.
5 STEP ACTION PLAN: MAKING DECISIONS ABOUT YOUR CAREER

1. Define your interests
   I. It is essential that you define your areas of interest first—rather than a profession. You will find that your areas of interest will influence your career choice.

2. Find mentors to talk to
   I. Talking to someone within the ICT industry is a great way to gain an insight into the sort of work you can expect to perform on a daily basis.
   II. Alternatively, the 'I Choose Technology' website provides an excellent overview of the ICT industry, the sort of jobs you can expect to obtain and also provides information about ICT salaries. (www.ichoosetechnology.com.au)
   III. Contact businesses and organisations who employ ICT professionals or arrange a meeting to discuss career advice and even the possibility of undertaking work experience.
   IV. Search the UQ website to discover the sort of subjects and assessment you can expect to undertake as part of the degree you are interested in.
   V. Attend UQ events such as Open Day, Innovation Showcase and the Interaction Design Exhibit to improve your knowledge of both the University and its ICT programs.

3. Redefine your interests once you have spoken to your mentors
   I. You may discover you have an interest in a particular area you previously had not considered.

4. Arrange a meeting with your careers counsellor to discuss University and course options
   I. Knowing what University degrees are available may influence which subjects you choose at high school as some will be prerequisites for entry into particular university courses.

5. Keep redefining your interests and talking to people for possible work experience or paid employment opportunities—even after you have started your degree
   I. You may find that your interests and career goals change with time and experience.
“The ICT industry is amazingly diverse. It touches every other industry and directly enables a plethora of business opportunities. The effect that ICT has had and continues to have in society cannot be overestimated.”

Implementing the next generation of user interface specification and programming languages is all in a day’s work as a Software Engineer.

Since completing his Bachelor of Engineering, Chris has had the privilege to work for a company with an international impact.

“Working for a company with a global scale and reach is really exciting. Furthermore, working on software which runs on devices that has the potential to transform the lives of hundreds of millions of people is an incredible experience.”

And as an industry, ICT is something which is expected to continue growing for years to come.

“I personally think that the ICT industry will continue to grow at an ever increasing rate. I think that other fields which currently have little impact or dependency on ICT will both have greater impact on and depend on ICT more and more in the future.”

As a career choice, Chris cannot recommend ICT enough.

“Almost every field of research and human endeavour depends on ICT as an enabler. If you want to work on cutting edge technology or the most forward-looking research, you will be well served by taking an ICT degree, as what you learn has applications in every industry and every field.”

CHRISTOPHER ADAMS
Qt Development Frameworks, Nokia
QUALIFICATIONS
Bachelor of Engineering (extended major in Computer Systems Engineering)

ALAN ALPERT
Qt Development Frameworks, Nokia (Senior Engineer)
QUALIFICATIONS
Bachelor of Engineering (Software)

“ICT is becoming more and more the foundation of modern life and business, so there’s always new and exciting developments to work on that can affect the lives of millions.”

As a senior engineer with QT Development Frameworks, Alan’s role entails the creation of
software modules. “As an engineer, this means the full scope from requirements gathering, design and architecture through implementation to documentation and verification,” Alan comments.

Throughout his time spent at university, it was the engineering team projects which Alan found to be the most beneficial to his career. “The engineering team projects provided a chance to work within a team of specialists to design, implement and test a project. It was the very essence of engineering experience.”

Alan recommends that students who enjoy mathematics and logic should pursue a career in ICT, as he has discovered that a lot of ICT involves applying mathematics or clearly defining logical operations.

And it seems that as a profession, ICT has a long and industrious future ahead.

“Until computers can think for themselves there will always be a need for qualified ICT professionals. In ICT computers can be used for most of the menial grunt-work, but qualified professionals are needed to control them and to make the advances necessary to remain competitive.”
"I hope to build my existing design business to work with larger commercial and research industries by providing Interaction Design solutions to support their work practices."

The skills and knowledge Andrew Dekker gained through studying ICT degrees have not only allowed him to establish his own digital design business, but to improve the work practices of other companies too.

"I am the co-director and founder of Ably Digital Design. We work with businesses as well as other research groups to design and develop Interaction Design based solutions, ranging from simple websites to promote the business, to completely new and unique products that are to be commercialised."

Working with clients to explore and find the best technology to support their business and develop a product which best suits their needs, is what Andrew finds most rewarding.

"While the primary role is to develop these technologies, a majority of the time is spent interacting with clients to gather an understanding of their needs."

As for advice to students who are considering pursuing a career within the ICT industry, Andrew says, “I would advise anyone who wishes to work in any technology and design fields to embrace all aspects of technology and design literature, and stay on top of current trends and techniques.”
As a Creative Technologist for Agency Republic – my role is to work in the technical department of advertising. My daily responsibilities include developing web sites, web applications and online banner advertising for large-end clients. Although the role is defined as a technical role, I also work closely with the Creative department where I converse and engage in conceptual development of new products, ideas and applications."

The studio courses in Multimedia Design that Bashkim undertook while studying at UQ proved to be directly applicable to his work at Agency Republic. “When studying in a studio, you have the freedom and the flexibility to create any project you wish; and you have great guidance from the academic staff to help you properly research, define and grow your idea before implementing it into a product.”

“For my role as a creative technologist, implementation of projects is not always through online means (e.g.: websites, banner advertising, etc). Some of our projects are physical computing applications where we design and develop our own electronic components in order to realise a product for our clients. During the studio courses, I learnt the skills required to understand basic electronic development and communicate with other professional specialists in order to actuate my project in a real-world environment. This involved liaising with electronic engineers, extra programmers, developers, local community groups, major stakeholders, security services, art directors, media attention and handling public comments.”
Managing Google Maps API means that I have to manage a team of software engineers, oversee the architecture, design and implementation of the software and do lots of coding too.”

Having decided to study a Bachelor of Electrical Engineering, Ben Appleton’s career at Google has witnessed numerous highlights - all of which are about improving the user experience.

“The launch of Google Maps API Version 3 was exciting. This introduced a modular architecture that was 2-3 times faster to load than Version 2. Version 3 has since seen many other improvements including 10 times faster overlay rendering and using features of HTML 5 to give users a better experience.”

Throughout his time at UQ, there were a number of courses that Ben found directly applicable to his chosen career such as Design Patterns, Algorithms and Data Structures, Statistics, Combinatorics, Computational Geometry and Cryptography.

“I’m constantly surprised at how theory from my studies finds its application in my day-to-day work,” he said.

“Working at Google is a lot of fun; there are plenty of smart people to work with and you’re solving a new problem every day.”
**JAMES MCGILL**  
Google Australia (Sydney Office)  

**QUALIFICATIONS**  
Dual Degree Bachelor Engineering  
(Computer Systems)  
Business Mangament

“Working at Google Australia, has provided me with so many great opportunities. One of the biggest highlights would have to be travelling to San Francisco to work with some incredibly bright people, and also working in a building which has a slide between levels 6 and 5!”

The technical leader of a Google Maps API team, James works to develop software that allows third party developers to make use of the same technologies which drive Google Maps. “In particular, I work on projects that help developers to display large amounts of Geographic data on a map.”

With a love for all things software, James said that the mix of university subjects available at UQ were invaluable. “I place a lot of value on the lower level computing courses I completed while at UQ. Having a good understanding of the fundamentals of computer operation at the hardware level makes it easier to reason about the performance of software.”

As an ever evolving industry, James recommends ICT for those who are always keen to continue learning.

“ICT is an amazing industry to be involved in. The pace of innovation is incredible – and perfect for someone like me who loves to continue to learn new things.”
CREATIVITY ON AN INTERNATIONAL STAGE

EMILY PEARCE
Flight Centre LTD (Global Head Office Brisbane) – User Experience Designer

QUALIFICATIONS
Bachelor of Multimedia Design

“I view ICT as the fastest changing industry that requires a passion to remain up to date with the latest technology and processes. An important part of our industry is to communicate with people outside ICT about what we do and how this helps to achieve common goals.”

In her current role as User Experience Designer, Emily’s position involves design research, customer research, wireframing, prototyping, final designs and conducting design testing with travel consumers. “I also work with developers, marketers, content writers and other business units within Australia and around the world,” Emily says.

“I get to work with some amazingly talented and smart people. I recently earned a Global Excellence award. Receiving this award entailed flying to Paris with the other award recipients to attend a conference. The guest speaker was Michael J. Fox!”

In five years’ time, Emily expects computers to be so ingrained that people won’t even realise that they are using computers. “It will be our job to create and maintain these items,” she says.

And for high school students unsure of what career path to pursue, Emily recommends playing to your strengths.

“I started off wanting to do a Fine Arts degree, having undertaken art all throughout high school. I do believe visual language, alongside verbal and written is crucial to be able to communicate effectively, so for those who have a knack for it definitely consider this course. If you like building things and figuring out how things work, ICT will give you plenty of hands on projects. University is a great environment to learn and if you are into web culture from gaming to social media then prepare to be immersed!”
“I sometimes believe that the ICT industry focuses too much on technology itself and forgets about the big picture: helping people and businesses communicate, and helping them get things done faster and more effectively.”

As the Lead Developer for ABC Online, communicating effectively with the wider community is an important aspect of Andrew’s role. Responsible for the ABC News, ABC Grandstand Sport, The Drum, ABC News 24 and election websites, Andrew leads the ABC’s web development group, who are tasked with designing and developing these websites.

“I oversee the publishing of live election results to the ABC website. One of my favourite elections was the 2010 federal election which resulted in a hung parliament. The Labor party and Coalition depended on the information available on the website to resolve the election deadlock and negotiate a minority government. It was an amazing feeling to know that the whole country was holding its breath while those numbers trickled through,” Andrew said.

Andrew believes that a passion for ICT is necessary in order to establish a successful career within the industry.

“The people that do well in ICT have a passion for it. There are some really talented ICT professionals who are self-taught or learn purely on the job, but I think they have a disadvantage to those with a combination of theoretical knowledge and practical experience,” Andrew said.

According to Andrew, future ICT professionals can expect to be focussing heavily on mobile technologies.

“Mobile technologies are shaking up the industry. With the advancement of smartphones and tablets, employees are starting to expect that these devices will be compatible with systems at work. I imagine that phones and tablets will be powerful enough in five years to replace desktop and notebook computers.”

ANDREW KESPER
ABC (Brisbane)

QUALIFICATIONS
Bachelor of Information Technology (Honours), Master of Business Administration
“ICT is an exciting industry. There are so many different pathways and career opportunities in fields I never imagined. I have worked in HR companies, as a design consultant, in social media and online marketing, in video production and as a tutor and researcher. These roles all related in some way back to my Multimedia Degree. Having my degree was a vital component in the recruitment process for these roles.”

Joining Telstra as a marketing graduate, Freya’s role on a daily basis entails various tasks ranging from liaising with various sections of the company to developing marketing and advertising strategies.

The ICT industry is an extremely diverse industry which Freya believes is constantly evolving.

“I see the industry being integrated into all business areas, meaning ICT professionals will not only be employed in ICT roles, but as managers, analysts, consultants and everything in between. I see ICT moving towards ubiquitous computing, with the rise of physical computing and user-centred design. With so many possibilities, the future is fast-paced, competitive and exciting – it’s a great time to join the industry!”

As for career opportunities for ICT graduates, Freya has witnessed first-hand a strong demand for qualified ICT professionals. “Nearly every company hires a number of ICT professionals in roles ranging from designers and social media advisors to software designers and IT managers. Many people I have spoken to have expressed a need for more ICT professionals within companies, and have said they are unable to find enough qualified graduates. With the heavy reliance on technology, I definitely see this trend continuing.”
A qualified ICT professional can adapt to different domains and apply their skills to assist in the use of and transition to these technologies, and will therefore continue to be in demand.

“ICT is continuing to change or even obliterate many professions which can now be automated through new software and technology, and is fast creating new professions in the use of the new technology. It is reshaping the way we work, the way we live our lives and the way we communicate.” Tim says.

Tim believes that ICT is a fantastic career path, one which provides the graduate with a wide variety of fields and specialisations.

“In ICT your skills are applicable to almost any domain. You need to love learning, because in ICT you are forced to keep developing your skills through your career and acquiring expertise in disparate disciplines. That is the reason I have made ICT my career choice. The real joy is continuously learning, meeting and working with different people in different fields, and always having the opportunity to make a real and lasting impact in any endeavour that interests you.”
I believe the demand for ICT professionals is going to increase in the foreseeable future as more and more organisations look for ways to reduce cost and improve efficiency by adopting the latest technology solutions.

Since graduating from UQ with a Bachelor of Information Technology, John has spent a number of years working within the ICT industry, where he has witnessed the demand for qualified ICT professionals firsthand.

Working as a Business Analyst for Sunsuper, John’s responsibility involves understanding the needs of the business and translating these into viable I.T solutions. John’s role also includes writing test scenarios that form part of the test automation suite.

“The ICT industry is constantly evolving at such a rapid pace which creates a wealth of opportunities and challenges.”

This evolution of the ICT industry is creating a large pool of employment options for graduating ICT students, who John believes must be comfortable with adapting to change.

“Constantly acquire new knowledge and have the ability to adapt to changing work environments in order to improve job performance and productivity,” John recommends.
RESEARCHING A HEALTHIER FUTURE

KAREN ROBINSON
The University of Queensland’s School of Information Technology and Electrical Engineering (ITEE): Margaret Peel Postdoctoral Research Fellowship

QUALIFICATIONS
Bachelor of Information Technology (Honours Class I)
PhD Computer Science

“One of the drawcards of having a research career is having the opportunity to collaborate with highly intelligent and deeply curious people on interesting projects. I am lucky to have met and worked with many inspiring people within the university and its affiliated research centres. I have also seen a lot more of the world than I would have otherwise through international conference travel.”

Employed part-time on the Margaret Peel Postdoctoral Research Fellowship, Karen Robinson conducts research in the areas of mobile and ubiquitous computing, with particular emphasis on mobile health.

“My current project focuses on the use of mobile apps and social software to support parents caring for young children with food allergies, intolerances and related medical conditions, such as asthma and eczema.

“The project involves a broad set of research, design and software engineering activities, including probing the family challenges introduced by food allergy, translating the challenges into solutions through app design and development, and evaluating the impact of the solutions on families,” Karen says.

Undertaking a career within research, has led to an array of opportunities, which Karen says she never would have had access to otherwise.

“I’m fortunate that as a researcher I’ve already had opportunities to work (and play!) with sensors, embedded devices, wearable computing, augmented reality, smart home technologies, and novel software engineering approaches. The most successful ideas from these research areas will continue to filter through to industry and everyday use over the coming years. Part of the appeal of ICT is that rapid changes can happen, so it’s difficult to predict just where we’ll be five years from now.”
As a Radio Support Engineer for Queensland Rail, Nia Schuhen is responsible for designing, managing and commissioning radio telecommunication projects for train control systems and wayside telemetry systems. Her role also involves arranging tenders for large purchases of equipment and maintenance requirements, as well as researching new wireless technology.

Throughout her employment with Queensland Rail, Nia has experienced a number of career highlights. “Designing and installing solar systems for flashing lights and boom gates along a brand new rail line west of Rockhampton, as well as travelling throughout Queensland, along the coast and inland, by train, 4WD and plane are definitely highlights.”

The Australian ICT industry is ever-evolving and is currently experiencing a shortage of qualified professionals.

“It’s an awesome industry providing new solutions to a broad range of customers on a daily basis. No other industry innovates as quickly as ICT, constantly providing different challenges for those of us who are part of it.”
“Get a good grounding in the basics and you’ll be able to move with the changes in technology. Develop your people skills as well. A combination of technical ability and the ability to work with and organise others can take you to amazing places.”

As the CEO of technology start-up company Opengear, Rick Stevenson is all too familiar with the demands of the ICT industry- responsible for the management of the entire company. Having founded the company with colleagues, Rick is a hands-on CEO and is involved in all areas of the organisation including engineering, sales, support, marketing, finance and manufacturing.

“I have worked in start-up companies ever since I left university and through corporate acquisitions I have ended up working in several very well-known companies like HP, IBM, McAfee and Intel. It has been very educational and often entertaining seeing inside these corporate giants,” Rick said.

With Opengear’s engineering and management team in Brisbane, and their sales and other operations in the USA and Europe, Rick Stevenson witnesses the international importance of ICT on a daily basis.

“High quality ICT professionals are still in high demand and I don’t see this changing any time soon. I think there are great opportunities for savvy and flexible people in ICT. When I started in the late 70’s it was still something of a niche industry. Now ICT is fundamental to most businesses and many recreational activities.”
ICT is such a broad industry; there are endless possibilities for where you can work and what you end up doing. Enrol in courses you think you’ll enjoy, not just those you think you should do for your future career. If you have fun while studying, it makes it much easier and you’ll learn more.”

Studying a Bachelor of Information Technology at UQ, has led Sarah along a fulfilling career path within the ICT field. As a Senior I.T Officer at The University of Queensland, Sarah’s role is quite varied, requiring her to provide Systems Administration, Help Desk Support, Desktop Support for HR Division Staff, and Systems Development.

“The combination of all the courses I studied gives me a broad knowledge of most facets of Information and Communications Technology. I use parts of this broad knowledge in my everyday work,” Sarah says.

Providing her with the basis for an interesting and fulfilling career, ICT is a field which Sarah is extremely passionate about.

“It’s a pretty interesting time to be involved in the ICT industry. Technology is evolving so quickly and exciting new products and practices are appearing all the time. As a whole, I think it’s a great industry to work in. There is a wonderful community culture in ICT that you don’t see in some fields; most people working in ICT are happy to help and share their knowledge.”

“In 5 years I expect that Australia will still be a leader in ICT research and innovation and have a continued focus as a service provider to the global ICT industry.”
“My research aims to address the challenges of searching and retrieving multimedia data within very large databases by deriving novel search algorithms, more efficient indexing structures and more effective ways of characterising multimedia content.”

Working as an Australian Postdoctoral Research Fellow in UQ’s School of Information Technology and Electrical Engineering, Dr Huang’s work covers both research and supervision of research students.

With research areas covering multimedia retrieval, database management and web knowledge discovery, Dr Huang has forged a successful research career for herself after completing a PhD in Computer Science.

“To better understand multimedia data objects, we employ an innovative data-driven approach, analysing multimedia content, user behaviour and user relationships to discover the ‘real story’ behind social media data. In this way, the approach moves beyond conventional text-based strategies to harness the semantic values inherent in web-based multimedia content,” Dr Huang said.

Identifying near-duplicate video content and tracking user behaviour to monitor topic evolution within the online community, Dr Huang and her colleagues are able to use the collective intelligence of the ‘crowd’ to generate richer understandings of the ways in which users engage with multimedia content on the internet.

This research and its findings as conducted by Dr Huang has potential applications in commercial environments, including advertising, opinion gathering, and data sharing and management.
“Primarily I manage the interaction between our video servers and our main application. My secondary roles include management of the server architecture behind our instant messaging system and the API for the Kondoot games.” 

Collaborating with fellow Information Technology graduate, Nathan Hoad to create social networking site Kondoot; at just 21 years of age, Mark Craknell is well versed in both the challenges and the rewards of the industry. “Being featured twice on the TODAY show as an Aussie start-up, would have to be the biggest highlight.”

It seems the belief that the ICT industry is one which will continue to grow, is shared by all who
work in it. “We are already beginning to see ICT becoming a huge part of everyday life. Whether it’s someone using their iPhone to play Fruit Ninja against a friend on the other side of the world or just a family sitting together to watch a funny cat video on their Internet-enabled TV the technological revolution has enabled us to connect with each other on a whole new level.”

For those students still unsure of what pathway to take, Mark comments “the most important thing that you will learn through a degree in ICT is the ability to learn and think in different ways. If you have a passion for technology and love learning new things there will be a place for you in ICT.”

NATHAN HOAD
Kondoot (CTO)

QUALIFICATIONS
Bachelor of Information Technology (Information Systems)
Bachelor of Multimedia Design

“I’ve worked at a number of places since graduating from UQ but Kondoot is easily the highlight. Not only has it been the most fun but also the most educating – I learn more every week at Kondoot than I could have anywhere else. That said, seeing my face on a billboard in Times Square in New York was something I never thought I’d see.”

Working as the Chief Technical Officer of the social networking site which he helped create, Nathan Hoad cannot recommend a career within the ICT industry enough. “The IT industry has been expanding and growing rapidly, even during the global financial crisis the Technology sector only suffered a minor impact compared to many other global industries. The IT industry is looking very bright as more and more opportunities open.”

As the Chief Technical Officer, Nathan manages the IT team and is in charge of any work undertaken on improving the site, such as adding new features or polishing existing ones. “As the world becomes reliant on more and more advanced technology, it will need people to build new tools to help capitalise on the future. There is not one industry that can’t be improved by a better understanding of its own processes and how they can be efficiently expanded and automated,” said Nathan.

As the ICT industry continues to evolve, it is essential that the professionals maintain pace with this. “Always be learning and always be doing. IT is about being adaptive to the ever changing world in which we live. Be excited by new things. Be prepared to throw stuff away and start again. Question everything.”
WOTIF CAREER GOES BEYOND EXPECTATIONS

AMANDA ROSS
Wotif Group – Chief Information Officer

QUALIFICATIONS
Bachelor of Information Technology

Responsible for the Wotif Group’s 100+ websites and portals, staff computers, telecommunications, IT infrastructure, corporate systems and IT strategy, Mandy’s career within the ICT industry has exceeded far beyond her wildest expectations.

“Simply seeing software development projects ‘go live’ is always a highlight for me, particularly when the initiative has a positive impact on revenue. Another highlight for me has been the work-related travel I have been fortunate enough to do. In addition to domestic travel, I have travelled internationally to a number of countries.”

Having studied a Bachelor of Information Technology, Mandy was able to directly apply the courses she undertook at university to her career within the industry.

“In my experience, the majority of courses I took during my degree have been applicable to my career over the years in some shape or form.”

As a career path, Mandy believes ICT offers endless opportunities and is something which will continue to grow as countries continue to evolve.

“If you have a genuine interest in ICT, go for it and don’t be afraid to select courses that interest you. Opportunities in ICT span right through from hard core engineering, to creative design and online marketing, not to mention business analysis and strategic IT management roles. You can find ICT jobs in most industries, whether it is mining, finance, government, ecommerce or health.”
WHAT TO STUDY TO BEGIN YOUR CAREER IN ICT

**Information Technology**
Majors:
- Bioinformatics
- Computer Systems and Networks
- Enterprise Information Systems
- Human-Computer Interaction
- Software Design
- Software Information Systems

**Multimedia Design**
Study focuses:
- Film and Television Focus
- Web Design and Development Focus
- Creative Arts Focus
- Advertising and Marketing Focus
- Communications Focus
- e-learning focus

**Engineering and ICT**
Majors:
- Electrical and Computer Engineering
- Software Engineering
- Mechatronic Engineering

For more information on UQ’s ICT degree programs please visit [www.uq.edu.au/ict](http://www.uq.edu.au/ict)
Choosing a program is a big decision, so it is important that you access lots of information to help you decide.

The sites below link to external resources to help you learn more about the ICT industry and the range of careers available.

**Australian Computer Society ICT Careers Portal**
www.acs.org.au/ictcareers/index.cfm

**Australian Computer Society Industry Profiles**
goo.gl/zGD17

**Australian Computer Society Videos ‘Careers in ICT’**
itcareersportal.com.au

**Australian Government Skills Info – ICT Skills**
goo.gl/wW4ss

**GradCareers ICT Industry Outlook (pdf)**
www.gradconnection.com.au

**ICTCareer Website**
www.ictcareer.com.au

**ICT Careers Streams (pdf)**
goo.gl/orrEX

**ICT - I Choose Technology**
www.ichoosetechnology.com.au

**Youth Central - ICT Careers Info**
goo.gl/ThXlr