



Activity Map 2015

www.digitalcareers.edu.au

This document provides an overview of information and communication activities, events and competitions on offer around Australia. The aim is to create awareness and stimulate interest in the possibilities available to students in the information, communication and digital technologies fields.

While every effort has been made to ensure the accuracy of the content provided, we suggest contacting the owners of each activity for the most current information available or visit their website for further details.

Program Name	Program Details
<p>Australian Innovation Challenge Innovation awards helping drive some of the nation's best ideas to commercialisation or adoption.</p> <p>5 professional categories plus a backyard category and the Young Innovators Award (new in 2014)</p> <p>This new category, which carries a \$5000 prize, invites Australia's next generation of budding innovator and emerging talent to step forward.</p> <p>It is open to young people under 21, either at school or in the early years of post-secondary education or training. Entrants under the age of 18 must provide formal permission for their participation from parents or guardians</p> <p>The scope of this category is open-ended, covering any inventions and novel initiatives with the potential to make a difference to our lifestyles, environment, work or play</p>	<p>Duration: Competition commences May and ends November</p> <p>Age Group: Open to both professionals and the general public</p> <p>Gender: Both</p> <p>Location: National</p> <p>Event Dates: Entries open May, Professional and Backyard entries close August 11, Young Innovator entries close beginning of September, Finalists announced weekly from October onwards, Awards Ceremony during November</p> <p>Website: http://www.theaustralian.com.au/innovationchallenge</p>
<p>Computational and Algorithmic Thinking Competition</p> <p>The Computational and Algorithmic Thinking (CAT) competition is a one-hour problem-solving competition which seeks to identify computer programming potential—something which students might not normally have an opportunity to demonstrate. The CAT is not a programming competition and no programming experience is required. Results in the CAT often enable a talent to be discovered that is not always apparent or sought in normal classroom activities. Some questions test the ability to accurately perform procedures; others require logical thought, while the more challenging problems require the identification and application of algorithms.</p> <p>Contact: Australian Mathematics Trust Ph: +61 2 6201 5136 aic@amt.edu.au</p>	<p>Acronym: AIC</p> <p>Duration: 1 hour</p> <p>Age Group: Upper Primary school (Years 5 and 6). All high school students, separate competitions for Junior (Years 7 and 8), Intermediate (Years 9 and 10) and Senior (Years 11 and 12).</p> <p>Gender: Both</p> <p>Location: All participating Australian Secondary Schools</p> <p>Event Dates: Tuesday 24 March 2015</p> <p>Website: http://www.amt.edu.au/aic/</p>
<p>Australian Informatics Olympiad</p> <p>The Australian Informatics Olympiad is a national computer programming competition held annually in early September. Students write short computer programs to solve three problems that range in difficulty. The competition does not test computer literacy or knowledge, but is focused on problem solving through programming skills. A free training program to help students learn an appropriate programming language is available through the AMT website link below.</p> <p>Contact: Australian Mathematics Trust informatics@amt.edu.au Ph: 02 6201 5136</p>	<p>Acronym: AIO</p> <p>Duration: 3 hours</p> <p>Age Group: All high school students, Two levels of competition, Intermediate (up to Year 10) and Senior (Years 11 and 12)</p> <p>Gender: Both</p> <p>Location: All participating Australian Secondary Schools</p> <p>Event Dates: Thursday 3 September 2015</p> <p>Website: http://www.amt.edu.au/aio/</p>

CoderDojo

CoderDojo is an open source, volunteer led movement orientated around running free not-for-profit coding clubs (Dojos) for young people.

At a Dojo, young people between 7 and 17 learn how to code, develop websites, apps, programs, games and much more. In addition to learning to code, members meet like-minded people, show off what they've been working on and learn new things. CoderDojo makes development and learning to code a fun, sociable and awesome experience. CoderDojo also puts a strong emphasis on open source and free software, and has a strong network of members and volunteers globally. CoderDojo has just one rule: "Above All: Be Cool", bullying, lying, wasting people's time and so on is uncool

Age Group: 6 and up

Gender: Both

Location: International – online, clubs in over 22 countries

Event Dates: ongoing

Websites: <http://coderdojobrisbane.com.au/>

<http://coderdojosunshinecoast.com.au/>

<https://www.facebook.com/coderdojohobart>

<http://coderdojo.com/>

CoreEd - Educating The Creators of Tomorrow's Technology

Technology is embedded in almost every aspect of our daily lives. The resulting paradigm shift in society's expectations has created an unprecedented demand for digital literacy and innovation. This, combined with the speed that technology is evolving, now requires a leap in education to match; strategies that inspire and empower students, parents, educators and industry.

The aim of CoreEd is to engage and inspire students to collaborate, problem solve and create innovative solutions to real world challenges through a variety of digital literacy and entrepreneurship extra-curricular programs.

Our mission at CoreEd is to become the national training and certifying authority at the forefront of global education in ICT, digital literacy and entrepreneurship.

CoreEd is developing its own syllabus for Prep to Year 9, in addition to empowering school-based educators to confidently incorporate ICT aspects and entrepreneurship across the entire curriculum.

CoreEd is unique in its vision to address the challenges that the digital age poses to youth, educators and industry, combined with its progressive approach to teaching & learning practices.

Contact: www.RegisterYourSchool.com.au

Natalie McDonald,

Director of Curriculum and Training

CoreEd Founding Partner

0418 883 401

Duration: The format varies to suit the course, during and outside school hours. eg. Co-curricular, incursion and holiday workshops.

Age Group: Programmes for Students, teachers and parents of Stages: P-3, 4-6 and 7-9

Gender: Male and Female

Location: National

Event Dates: Register now for Terms 1, 2, 3 and 4

Website: www.CoreEd.com.au

ECOMAN

ECOMAN, is an international business simulation program, implemented in secondary schools and colleges across Australia to familiarise students with the world of business. The program is delivered by Queensland Private Enterprise Centre (QPEC), a not-for-profit organisation run by prominent business leaders whose mission is to help inform and educate teachers and young people about the central role and contribution of enterprise in our society. QPEC has been conducting ECOMAN programs for students in central and southern Queensland since 1995 and the program has been growing steadily to meet increasing demand.

Contact: Mr Barry Hopf, Education Co-ordinator

Ph: (07) 3816 3775 or e-mail

bhopf@bigpond.net.au

Duration: 3 days

Age Group: 13 and older

Gender: Both

Location: Brisbane, and regional centres including Cairns, Townsville, Ipswich, Redlands, the Gold Coast, Beaudesert, Kingaroy, Emerald, Gladstone and Bundaberg.

Event Dates: arranged by participating schools with ECOMAN

Website: <http://qpec.org.au/ecoman.html>

Endeavour Schools Program

The Endeavour Schools Program connects with Primary and Secondary schools across Victoria, bringing an engaging introduction to Engineering & IT along with all kinds of technology demonstrations.

Contact: Endeavour Management Team

University of Melbourne

endeavour-mse@unimelb.edu.au

Ph: +61 3 8344 6642

Duration: Roadshow - one hour presentations; Adventure - Workshop and access to design expo at the University

Age Group: Primary and high school, Years 5 - 10

Gender: Both

Location: Melbourne and Victoria

Event Dates: In 2014, the roadshow ran from 14 July to 25 July and the adventure was held on 23 October

Website: <http://endeavour.unimelb.edu.au>

ICT Career Kickstarter session

The Tasmanian ICT Conference is being held on Thursday 14 August. As part of that event, ICT students from around Tasmania are invited to attend an ICT Career Kickstarter session from 10am – 12 noon.

- Students/TAS TAFE staff free entry on registration
- One hour session (10-11) with presentations from ICT leaders and professionals.
- One hour (11-12) with ICT businesses at the trade booths.

Contact: TasICT

Dean Winter
Executive Officer
dean.winter@tasict.com.au
Ph: 0427 253 654

Duration: 10am – 12 noon.

Age Group:

Gender: Both

Location: Hotel Grand Chancellor, Hobart, Tasmania

Event Date: In 2014 the conference took place on Thursday 14 August

Website: <http://www.tasict.com/conference>

ICT in Schools - a partnership program

Scientists, Mathematicians and ICT in Schools is a national program that creates and supports long-term partnerships between primary or secondary school teachers and scientists, mathematicians or ICT professionals. Partnerships are flexible to allow for a style and level of involvement that suits each participant.

Contact: Scientistsinschools@csiro.au
Ph: 02 6276 6397

Acronym: ICTiS

Duration: Since the program began in July 2007, over 3730 partnerships have been established in over 1415 schools across Australia. Currently, 1660 partnerships are active in 1172 schools as at 30 June 2014.

Age Group: Primary and secondary students

Gender: Both

Location: National

Event Dates: Ongoing

Cost: Free

Website: www.scientistsinschools.edu.au/ict

Internet of Things Developer Challenge!

The IoT Developer Challenge is an online contest that rewards developers who create an IoT application using Java Embedded with computer boards, devices or other IoT technologies.

How to Win

1. Create a well-implemented, innovative and useful application using java embedded with devices, boards or other IoT technologies.
2. Make a video presenting your project.
3. Fill out the submission form
<https://www.java.net/challenge/registration>
with links to your video and code.

Acronym: IoT

Age Group: any developer, student, hobbyist, and professional

Gender: Both

Location: online competition

Event Dates: Submissions begin in March

Submission deadline is in the end of May

Winners announced late June

JavaOne 2015 event – 1 week during September - October

Website: <https://www.java.net/challenge>

Junior Engineers

An after school program teaching children software programming in a fun and entertaining way. The courses develop children's mathematical and problem solving skills through software programming.

Students start at an introductory level and progress towards more sophisticated programming through challenges that are adjusted to individual pace. Junior Engineers runs programs in primary schools and commencing soon in high school and adult education centres. Various levels are available.

Contact: Rod Klayman
admin@jnengineers.com
Ph: 0431 444 241

Trialled in September 2013 at Ironside State School.

Rolled out to various schools in Brisbane in 2014 with now more than 300 students participating.

Duration: ongoing

Age Group: Primary school from Year 3 to junior high School

Gender: Both

Location: Brisbane, Gold Coast and now in Melbourne. Currently seeking interest from new schools in Sydney and Melbourne.

Event Dates: starting each school term

Cost: from \$220 a term

Website: www.jnengineers.com

Little Scientists

'Little Scientists' is a not-for-profit initiative of FROEBEL Australia and the "Little Scientists' House Foundation" in Germany. It has been designed to facilitate children's curiosity for science, maths and technology through child-appropriate, fun and playful experiments already in their early years. Education and care services, preschools and kindergartens that work with children from 3 to 6 years of age are invited to join the program and to become an accredited "Little Scientists' House". Teachers and educators are continuously trained through the initiative and are empowered to implement the program together with the children in their care.

Contact: Sibylle Seidler
sibylle@littlescientists.org.au
Ph: 02 8080 0065

Duration: The participating teachers and educators from education and care services join a 6-monthly 1-day hands-on 'Little Scientists' workshop and then implement the program with the children in their care.

Age Group: Kindy, Prep, 3 - 6 years of age

Gender: Both

Location: Throughout Australia, where 'Little Scientists' Local Network Partnerships have been established. At this stage they are based in ACT, NSW and WA with more Local Network Partners planned to come onboard.

Event Dates: Ongoing

Website: <http://www.littlescientists.org.au/>

Robogals

Robogals is a student-run organisation that aims to increase female participation in engineering, science and technology. Robogals believes that this is best achieved in a gender balanced environment. We believe that this will give female students the confidence to work in a realistic engineering workplace.

Contact: school@robogals.org
Ph: 03 9035 3880

Duration: all year - workshops at council libraries and primary schools

Age Group: Year 6 - 12

Gender: Aimed at girls, but also open to boys

Location: chapters in QLD, NSW, VIC, SA, WA and ACT

Event Dates: ongoing

Website: <https://my.robogals.org/chapters/>

More information on each chapter and their activities can be found on the website

Women in Technology

Founded in 1997, Women in Technology (WiT) - is one of Queensland's most respected and active technology industry associations and a peak body for women in the technology industry in Queensland developing a sustainable and growing network of members, sponsors and supporters. WiT aims to support, develop, recognise and promote the achievements of women in the technology industries

Contact: Lisa Cawthorne
secretariat@wit.org.au
Ph: 0430 219 091

Acronym: WiT

Membership/Affiliates: Combined members and affiliates is 2208 and growing.

Age Group: Females working in IT, Life Sciences and other technology fields ranging from students through to professionals. We support women at all career levels and those coming in and out of career breaks.

Gender: Women (men are however welcome)

Location: Qld

Event Dates: Ongoing Networking and Professional Development Events, Flexible Mentoring Program, Awards Program, Board Readiness Program and free membership for students.

Website: <http://www.wit.org.au/>

Youth Festival of ICT

YITCON brings together more than 1,000 senior secondary students, university students, and young professionals interested in ICT careers to discover how they can prosper in the digital future.

The conference motto is "Change Minds, Change Futures, Change Worlds."

Contact: Andrew Johnson
andrew.johnson@acs.org.au
Ph: 02 9299 3666

Acronym: YITCON

Duration: 2 days

Age Group: Senior secondary students, university students, and young professionals

Gender: Both

Location: Melbourne, Victoria

Event Dates: 2015 dates to be advised, held 9 & 10 October in 2014

Conference Fees: begin at \$255 for a student up to \$450 for a young professional (non-member) registration

Website: <https://www.acs.org.au/networking-and-events/yitcon-2014>

Young ICT Explorers

YICTE is an all-year competition in which students work on ICT projects of their own choice at home and at school. In August/September, the students come together to showcase their projects high-profile judges from industry and academia and the general public. Students and teachers work together to align potential entries with the school curriculum, enabling them to apply what they've learned in the classroom to the competition project. The goal is to encourage and inspire school students to use their creativity and innovation skills to gain a greater understanding of the diverse possibilities of today's technology. YICTE does not prescribe topics or technologies. Projects are judged according to their Creativity and Innovation, Quality and Completeness, Level of Difficulty, and Documentation. The competition is open to primary and secondary school students from Years 3 -12.

Contact: SAP
Travis Joy
Travis.joy@sap.com

Acronym: YICTE

Duration: all year, with a 1 day competition day held across 4 states in August/September

Age Group: Year 3 -12

Gender: Both

Competition Locations: Brisbane and Townsville, Sydney, Melbourne, Canberra, Perth

Event Dates: Competition days held August to September

Website: <http://www.youngictexplorers.net.au>