

STEM @GRAMMAR



Science



Technology



Engineering



Mathematics

STEM

Smart Teaching Evolves Minds Science Technology Engineering Maths

At Townsville Grammar we strive to provide an environment where young people can achieve their Personal Best.

Nurturing, recognising and rewarding achievement is, we believe, a vital part of the process of building the confident and daring innovators of the future; prepared to work in interactive industries that recognise and solve problems that have not even presented yet.

Smart teaching is the core of what we do because Smart Teaching Evolves Minds. At the core of every innovator and future leader is a mind that is ready and confident to solve the problems and evolve solutions for the future.

At Grammar, STEM subjects and a STEM attitude are a built-in component of the breadth and depth of our curriculum.



SCIENCE: One of the widest fields of tertiary training are: material scientists, climate scientists, environmental, geosciences, food science, health, renewable energy.



TECHNOLOGY: Still increasingly in demand are: code writers, cloud architects, database administrators, system and marketing analysts (IT), web developers, manufacturing sound and electrical.



MATHEMATICS: Financial analysts and actuaries, statisticians, economists, and space researchers; data providers (IT), engineering, finance, government, research science, business and health care.



ENGINEERING: Engineers in computers, software, electrical, food, environmental, water, aerospace, naval, materials, programming, network, robotics and plastics engineers.



JOBS FOR THE FUTURE: Today, many traditionally male-dominated STEM fields now are actively recruiting women.



STEM IN ALL WE DO: STEM knowledge & skills make a positive difference in the world through innovation & creativity.

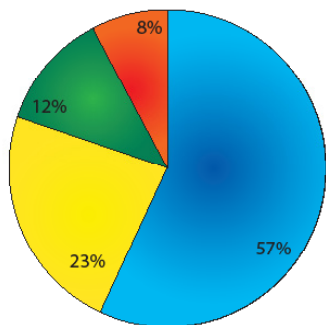


JOBS FOR THE FUTURE: In recent years, new career options have opened up in areas like geoinformatics, app development and renewable energy storage.

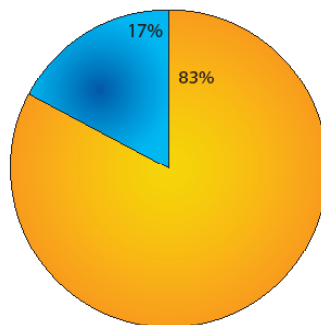
"To ensure we equip our students with these skills we invest in our School's greatest resource – our teachers."

WE LIVE STEM - WE DON'T JUST TALK ABOUT IT!

In 2015, Year 12 students graduating from Townsville Grammar School, confidently chose STEM related career paths- 83% of them!



Science/Maths
Engineering
Technology
Other



STEM
Other

***STEM graduates** have higher starting salaries than all other bachelor degree graduates!

Office of the Queensland Chief Scientist, Health of Queensland Science Review, November, 2014, p20 www.chiefscientist.qld.gov.au/images/documents/chiefscientist/reports/health-qld-science-2014.pdf

PAST GRAMMARIANS NOW LEADING STEM CAREERS



Dentistry



Agricultural Science



Science Teaching



Engineering



Medicine



STEM @ GRAMMAR

Integrated into the Junior School curriculum, STEM becomes more specialised as students move into their senior years of schooling..

- Information Processing&Technology
- Technology Studies
- Design and Technology
- Graphics
- Industrial Skills (Engineering)
- Manufacturing - Building and Construction
- Mathematics A
- Mathematics B
- Mathematics C
- Biology
- Chemistry
- Physics
- Earth Science
- IB Mathematics
- IB Chemistry
- IB Engineering
- IB Biology
- IB Physics
- Coding@Grammar Club
- Science for Almost Middle Schoolers
- Scientists at School



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