

What About Employment?

Mechatronics Engineers are in high demand, both domestically and internationally. Most engineering graduates either have employment arranged upon completion of the course, or are employed within a matter of weeks after study concludes. Many graduates spend a period of time working overseas; some continue on to higher (postgraduate) degrees.

Some areas of employment include:

MANUFACTURING
HI-TECH RESEARCH AND DEVELOPMENT
CONSULTING
DESIGN (ALL TYPES, FROM CARS TO MICROWAVE OVENS)
MANAGEMENT
PUBLIC UTILITIES
DEFENCE

Why Study Mechatronics at the University of Adelaide?

When you select a university, you are essentially purchasing a promise - of world class training, of the potential for a rewarding career, of the ability to travel interstate and overseas with a recognised qualification, and of a foundation which allows you to grow and development without bounds. Mechatronic Engineering at the University of Adelaide provides all of this and more.

The University of Adelaide is one of Australia's oldest and most prestigious universities. The curriculum is nationally and internationally accredited, and is used "in bulk" by overseas institutions. In addition to teaching, the staff in the Faculty of Engineering conduct research (with the participation of students) and consult to domestic industry and government bodies, as well as overseas bodies ranging from NASA to the Japanese Government; this keeps the knowledge and skills of

the instructors at the forefront of technology.

Graduates of Engineering at the University of Adelaide often go on to achieve significant advances in their chosen disciplines; Australia's only Astronaut is a graduate of the Department of Mechanical Engineering.

Mechatronic

ENGINEERING AT THE UNIVERSITY OF ADELAIDE - WORLD CLASS EDUCATION FOR WORLD CLASS STUDENTS.



THE UNIVERSITY OF ADELAIDE

FOR FURTHER information

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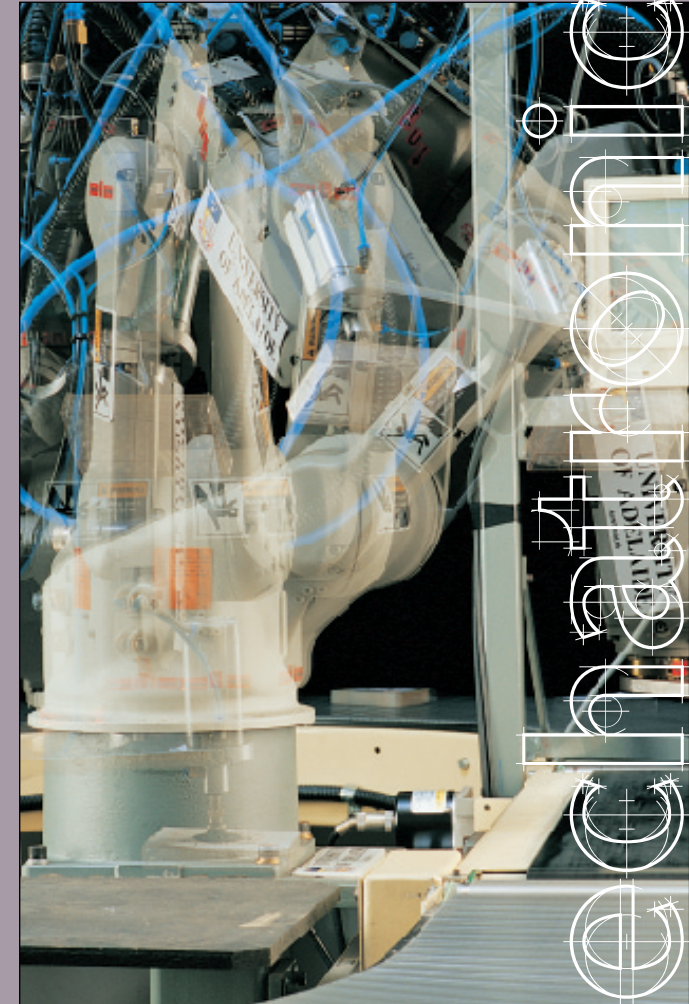
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THE UNIVERSITY OF ADELAIDE



Mechatronics

Department of Mechanical Engineering

Mechatronics



What is Mechatronics?

Mechatronics refers to the efficient and effective integration of mechanics (movement) and electronics.

What is an Engineer?

An Engineer is a person who applies scientific principles to the design, construction and maintenance of products and processes.

What is a Mechatronics Engineer?

A Mechatronic Engineer is a person who exploits a synergy between mechanics and electronics to design, construct and maintain improved products and processes. The products and processes may be as common as a "smarter", more efficient washing machine, or as innovative as a fully automated robotic assembly line for mass production, or as extraordinary as the Mars Rover. A Mechatronic Engineer can work comfortably and competently with cutting edge electrical and mechanical technology in a wide variety of disciplines, either as part of a team or on their own.

What are the Prerequisites?

Entry to the Engineering program at the University of Adelaide is tough - we regularly have the highest TER cutoff scores in the country. In order to be offered a place in the Mechatronic Engineering program, and to find the course truly rewarding, you will need the following:

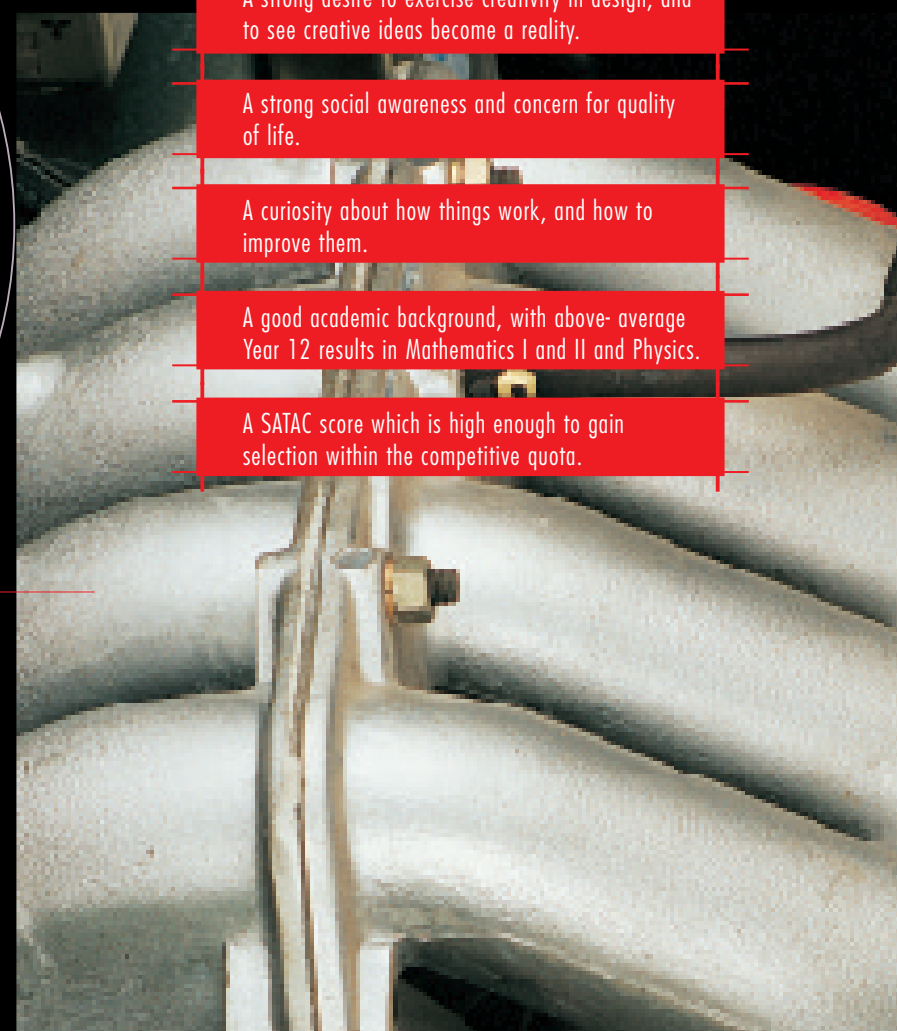
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A strong desire to exercise creativity in design, and to see creative ideas become a reality.

A strong social awareness and concern for quality of life.

A curiosity about how things work, and how to improve them.

A good academic background, with above-average Year 12 results in Mathematics I and II and Physics.

A SATAC score which is high enough to gain selection within the competitive quota.



What Skills Will I Learn?

The Mechatronic Engineering program is designed for the highest calibre of student, one that will work with and define the cutting edge of technology. If the many aims of the Mechatronic Engineering course had to be distilled into two brief statements, they would be:

To instil in students a technical foundation that is both appropriate for them to work in mechatronics-related areas today, and to continue to learn and work in mechatronics-related areas in the future.

To instil in students the problem-solving, management and communication skills necessary for modern engineering employment.

Some of the specific areas of study include:

DESIGN

COMPUTER SYSTEMS AND SCIENCE

SENSOR AND ACTUATOR TECHNOLOGY

AUTOMATIC CONTROL

ROBOTICS

AERODYNAMICS AND AEROSPACE ENGINEERING

MICROPROCESSOR TECHNOLOGY