

# ENGINEERING

Engineers are creating new, high-tech solutions to the world's problems. Will you join them?

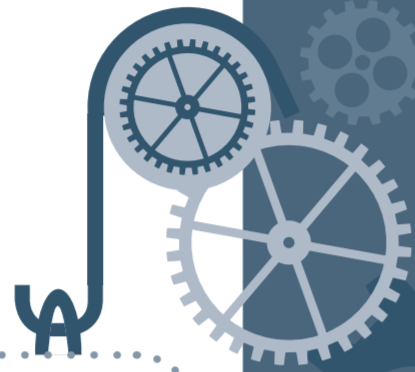
## ENGINEERING HAS

EXISTED SINCE HUMANS  
**INVENTED** THE PULLEY,  
LEVER AND WHEEL

Today an Engineer does everything from developing computer software, creating robots, building bridges, and creating a sustainable future for manufacturing



**"ENGINEER"**  
ORIGINATES FROM THE  
LATIN WORD  
INGENIATOR,  
THE  
**INGENIOUS  
ONE**



### Engineers

HAVE CHANGED THE WORLD INVENTING:

ELECTRONICS  
**RADIO**  
COMPUTERS  
PHONE

AUTOMOBILES  
**TRAINS**  
PLANES  
SPACECRAFT  
HELICOPTERS

THE  
**STEAM ENGINE**  
THE  
**SEARCH  
ENGINE**

AIR  
CONDITIONING  
**WATER**  
DISTRIBUTION

LEAD RUBBER  
BEARING BASE  
ISOLATION  
IN EARTHQUAKE  
**PROOFING**

DEVELOPMENT OF  
**POLIO** VACCINE  
AND MANY  
ANTIBIOTICS

And so have we

MASSEY ENGINEERING GRADS HAVE INVENTED  
SOLUTIONS FOR:

**HELPING  
NEW ZEALANDERS  
SLEEP BETTER**

Fisher & Paykel Healthcare

IMPROVING  
THE LIVES OF  
**DISABLED  
PEOPLE**

Metalform, Dannevirke

DEVELOPING  
CUTTING-EDGE  
TOUCH SCREEN  
APPLICATIONS

Fingertapps

**FINDING  
LOST  
PLANES**

SpiderTracks

**SAVING  
WATER AND  
IRRIGATING  
FARMS BETTER**

Where's My Cows

**SAVING THE  
PLANET**

Alice Andrew

## TISSUE ENGINEERING

**MIGHT REPLACE** ORGAN TRANSPLANTS  
AND ARTIFICIAL IMPLANTS  
ALREADY BONES CAN BE REGROWN

ADVANCED FORMS OF  
TISSUE ENGINEERING  
MAY LEAD TO **LIFE EXTENSION**



## I AM ROBOT

ARE ROBOTS DESTINED TO TAKE OVER  
THE WORLD – OR SIMPLY TO HELP US  
LIVE OUR LIVES BETTER?

robot.

COMES FROM THE CZECH WORD 'ROBOTA'  
MEANING 'FORCED WORK OR LABOR'.

## LEONARDO DE VINCI'S HUMANOID MACHINE

Designed in 1495 has  
now been created to  
help colonise Mars

In 2011, Massey  
University's man-  
sized metallic  
robotic leg matched  
the skills of former  
All Black Andrew  
Mehrtens with a  
five-all draw kicking  
contest.

CREATE A  
NEW, BETTER  
WORLD.  
BECOME AN  
ENGINEER.

AVERAGE STARTING SALARY  
**\$52,000** PER YEAR

### Alice Andrew

NGĀTI TOA, NGĀI TAHU

**ENVIRONMENTAL ENGINEER** ALICE ANDREW IS HELPING  
TO CHANGE THE FACE OF NEW ZEALAND, AND THE WORLD.  
The Massey graduate is helping develop 'Business as Usual is Not an Option',  
New Zealand's response to the international problem of sustainability,  
pushing big changes in business, infrastructure and human development.

**SHE IS** ONE OF A NEW WAVE OF **ENVIRONMENTALLY-AWARE  
ENGINEERS** EQUIPPED TO GET THINGS DONE, WHILE  
ENSURING THE PRINCIPLES OF SUSTAINABILITY ARE AT  
THE CORE.

At Massey University, you'll gain not only the technical skills to be a good engineer, but also the creativity and vision to come up with great ideas that solve global problems. It's about pushing the boundaries, but coming up with a workable solution that's relevant to the future. You'll bring leadership to what you do. And you'll be qualified to work in New Zealand, and around the world.



facebook.com/masseyuniversity



UNIVERSITY OF NEW ZEALAND