# Land Surveyor

> "There is such a **variety of work**, everyday is different. You get to **see some pretty cool places**, not just stuck in an office!"

## GEORGIA ROONEY

**Favourite Project Name:** Powerhouse Museum

**Favourite Subjects at School:** Geography, Maths, Physics, Physical Education (P.E)

**Tertiary Study Completed:** Bachelor of Surveying, Registered Surveyor NSW

**Your Favourite Tools:** 3D scanner is my favourite because it can record millions of points very quickly unlike traditional measurements with a theodolite where you record single points

THEODOLITE

PRISMS

3D SCANNER

TAPE MEASURE

DISTO

GPS ROVER

THE SURVEYORS' TRUST

She Maps

# Senior Geospatial Analyst

> "The experiences and challenges that come with being a Geospatial Analyst ensure there's **never a dull day**, and provide me with a sense of accomplishment by **contributing to society and making a real difference**."

## RHIANNAN MUNDANA

**Favourite Project:** Supporting local governments in preparing for the impacts of climate change and extreme weather events

**Favourite Subjects at School:** Geography, Science

**Tertiary Study Completed:** Bachelor of Science with Honours (double majors in Geology and Spatial Sciences and minor-equivalent in Geography and minor-equivalent in Geography)

**Your Favourite Tools:** ArcGIS, Python

MAPPING

DATA COLLECTION

CLIMATE CHANGE

PYTHON

DISASTER MANAGEMENT

ARCGIS

**CURRENTLY WORKING AT**

Spatial Vision

She Maps

# Graduate Spatial Cadet

"They say a **picture speaks a thousand words, so do maps**. This makes every project unique, each day is a different learning experience."

## BIANCA FICHERA

**Favourite Project:** Investigating the resilience of communities from certain council areas against the effects of climate change

**Favourite Subjects at School:** Geography, Visual Communication and Design

**Tertiary Study Completed:** Bachelor of Geospatial Science (Honours)

**Your Favourite Tools:** Our main tool is a computer, so my favourite programs we use are Adobe Illustrator and ArcGIS

MAPPING

DATA COLLECTION

CLIMATE CHANGE

COMPUTER

ADOBE ILLUSTRATOR

ARCGIS

**CURRENTLY WORKING AT**

Spatial Vision

She Maps

# Earthquake Geologist

> "I love using drones and science **to tell stories** about how earthquakes and tectonics are still changing our seemingly **ancient outback landscapes**."

## TAMARAH KING

Tamarah is an earthquake geologist and PhD student at the University of Melbourne. She uses field observations, drone imagery, and satellite data to study earthquake damage to investigate the past and future of Australian earthquakes. Her research allows her to explore remote parts of Australia and the world, travelling across the deserts of Australia, Timor-Leste, Indonesia and Scotland to look at geology and tectonics.

**Favourite subjects at school:** English, Women's Studies, Biology, Music

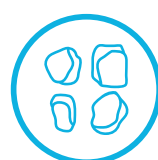**Further study:** Bachelor of Science (Earth Sciences); Masters of Earth Sciences

CONSERVATION    HISTORY    COMMUNICATION

DRONE WORK    ROCKS    VOLCANOES

EARTHQUAKES    LANDFORMS

*She Maps*

# Landscape Architect

> "There are a million ways that you can use your passions to **make the world a better place**; drones happened to be mine."

Photo credit:
Ainslee Morgan
Immortal Eyes Photography

## SARA WEBBER

Sara Webber is a small business owner, drone/gaming nerd, landscape architect, and certified drone operator. She is passionate about her career using drones for photography, film, photogrammetry, and 3D design. She uses drones to create accurate maps of the landscape for site context analysis, and to create an "Artist's Impression" of how different designs will look when situated in their environment.

**Favourite subjects at school:** Fine Art, Legal Studies, Maths and English

**Further study:** Bachelor of Environments; Permaculture Design Certificate

CONSERVATION    MAPPING    3D MODELLING

DRONE WORK    BIODIVERSITY    ARCHITECTURE

PHOTOGRAPHY    LANDSCAPE DESIGN

She Maps

# Environmental Scientist

> "Drones are amazing tools that **allow us to see what our eyes cannot**, and they have **revolutionised the way** I think about solving environmental problems."

## CHIPPIE KISLIK

I use drones to investigate drought conditions in plants, as well as to identify algal blooms that float on the surface of the water. Drones allow me to examine changes over time in the environment, and help me detect issues related to water stress and water quality. I love having the freedom to plan, capture, and analyse my own data from start to finish!

**Favourite subjects at school:** Geography, English, Music, Cartography

**Further study:** Bachelor of Science in Conservation and Resource Studies

CONSERVATION     MAPPING     SATELLITE

DRONE WORK     BIODIVERSITY     WATER QUALITY

PLANTS     DROUGHT

She Maps

# Solution Engineer

> "I'm inspired by the **different perspective of the world** that drones give me, the applications are endless!"

## CHRISTINE MUNISTERI

Christine is a Junior Solution Engineer and drone pilot at GEO Jobe GIS. She developed her interest in geospatial technologies while working with students in Belize as they mapped marine debris and studied flooding and disaster management. With her team at Citizen Science GIS and Open Reef, she uses drones to collect high resolution imagery of coastal communities and vulnerable islands to assist with island inventories, environmental research, and educational endeavors.

**Favourite subjects at school:** Geoscience, Remote Sensing, Italian, and Marine Biology

**Further study:** Bachelor of Arts in Environmental Studies

CONSERVATION

MAPPING

COMMUNICATION

DRONE WORK

EDUCATION

FLOODING

DISASTER MANAGEMENT

LITTER

She Maps

# Business Development Manager

> "Autonomous drones **open up creative solutions** for data collection in tough environments. I love working with different teams to **unlock the potential of new technology**."

## HOLSTEIN WONG

**Favourite Project Name:**
Cultural heritage preservation in Quinkan Country, Far North Queensland

**Favourite Subjects at School:**
Chemistry, Maths, Modern History, Physics

**Tertiary Study Completed:**
Bachelor of Materials Science and Engineering

**Your Favourite Tools:**
Drones, robotics, mapping, minerals processing, 3D modelling, underground mining, exploration

DRONE WORK    ROBOTICS    LIDAR

MINING    MAPPING    3D MODELLING

DATA COLLECTION    emesent    She Maps

# Land Surveyor



> " I love being able to work on big projects, and **turn data into 3D models** for virtual reality."

## LAUREN HOLLAND

**Favourite Project Name:**
Winston Churchill's Old War Office

**Favourite Subjects at School:**
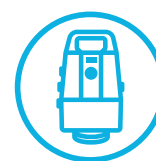Geography, Music and Food Technology

**Tertiary Study Completed:**
Bachelor of Geography

**Your Favourite Tools:**
Favourite tool is Leica MS60, it is a total station and a laser scanner

GPR

LEICA MS60

LEICA BLK2GO HAND HELD LASER SCANNER LASER

LEICA AIBOT DRONE

LEICA RTC360 LASER SCANNER

THE SURVEYORS' TRUST

She Maps

# Surveyor

> "No one day is like another, **it is a constant adventure**. You never stop learning which **keeps me engaged and excited**."

## MARIE JANINA NAVARRO FERRER

**Favourite Project Name:**
Mulgumpin (Moreton Island) Surveys

**Favourite Subjects at School:**
Maths, English, Programming

**Tertiary Study Completed:**
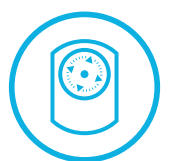Bachelor of Science in Geodetic Engineering

**Your Favourite Tools:** Total Station (favourite), prisms, GPS, calculator, tape measure, compass, laptop

**TOTAL STATION (LEICA TS 15)**

**GPS (TRIMBLE R10)**

**COMPASS (SUUNTO)**

**CALCULATOR (HP 5OG)**

**TAPE MEASURE**

**PRISMS**

THE SURVEYORS' TRUST

She Maps

# Cadastral Surveyor

> **"I like the challenge of surveying** including the maths, logic and not to mention field work and travel."

## JEMMA PICCO

**Favourite Project Name:** Cape York Peninsula Tenure Resolution Project

**Favourite Subjects at School:** Geography, Maths

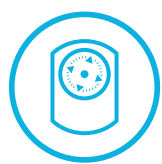**Tertiary Study Completed:** Bachelor of Surveying and Bachelor of Information Technology (double degree)

**Your Favourite Tools:** Total Station (favourite), GPS, prisms, compass, tape measure, tripod

**TOTAL STATION**

**GPS**

**COMPASS**

**TAPE MEASURE**

**PRISMS**

**TRIPOD**

THE SURVEYORS' TRUST

She Maps

# IT Innovation & Spatial Lead

> "I love the fact that I get to **learn every day** and the opportunity to **make a difference** to our community."

## INGA PLAYLE

I have worked in a variety of geospatial roles, including government, consulting, utilities and energy. I choose geospatial because of the variety of career options, including the ability to work in the field or in the office and in different industries.

**Favourite Subjects at School:** Geography, Information Systems, Maths, Accounting

**Tertiary Study Completed:** Bachelor of Geomatics with Honours

**Your Favourite Tools:** 3D models & mesh, imagery, ArcGIS

MAPPING

DATA COLLECTION

RENEWABLE ENERGY

3D MODELLING

ANALYSE DATA

ARCGIS

She Maps

# Earth observation Data Scientist

"I believe that **technology is the key to the future** and as a data scientist at GeoNadir, I am currently focusing on unlocking the endless information from **nadir angle using artificial intelligence.**"

## JOAN LI

**Favourite Project Name:**
Find sea cucumber with drones

**Favourite Subjects at School:**
Maths, Biology, English

**Tertiary Study Completed:**
Master of Science in Marine Biology
(James Cook University)

**Your Favourite Tools:**
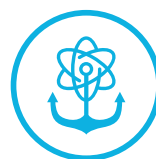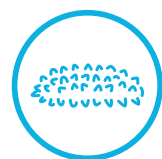Google! honestly don't know how I can live without it.

**DRONE WORK**  **AI**  **MAPPING**

**MARINE SCIENCE**  **EARTH OBSERVATION**  **SEA CUCUMBER**

**STEAM**  **BIODIVERSITY**

She Maps

# Aerial Archaeologist

> ❝ "I get to find new ways to look into the past. I get an advantage into **putting together the puzzle pieces of history** by using a birds eye view."

## KIKI LATHROP

**Favourite Project:** Recording an ancient structure with rock art from the 1100's. By making a 3D model we were able to learn a lot about what the structure was used for and how it was built.

**Favourite Subjects at School:** Sciences, History, Photography and Remote Sensing

**Tertiary Study Completed:** Astronomy & Archaeology. Graduate school in Museum Studies. Busy with second masters in Applied Geospatial Sciences.

**Your Favourite Tools:** My infrared drone that I nicknamed "Red"
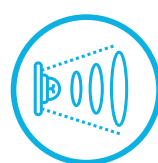
DRONE WORK    HISTORY    MAPPING

DATA ANALYSIS    ARCHAEOLOGY    ASTRONOMY

INFRARED    BIODIVERSITY    She Maps