NEVER MISS AN OPPORTUNITY

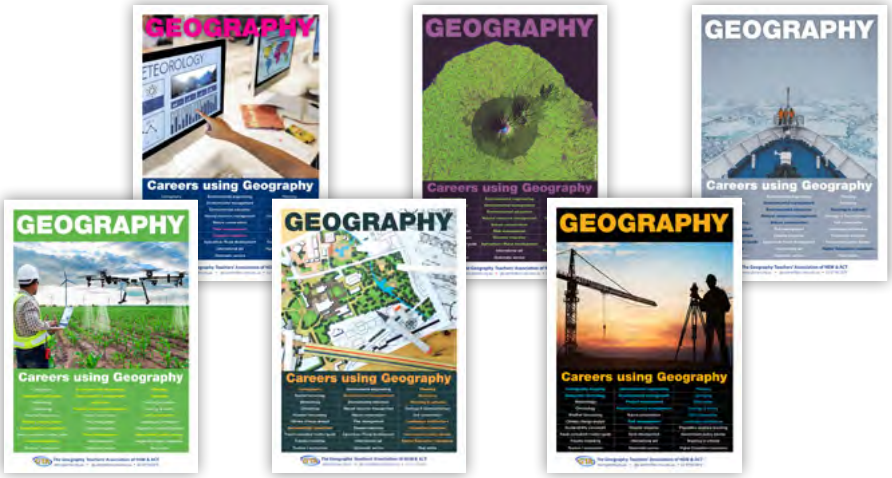
Lorraine Chaffer

It is important that our students can see the value of Geography, not only for understanding the world, but also the place of geographical knowledge and skills in career pathways and the career opportunities they can investigate further.

One approach is to display posters that showcase links to careers in Geography. When teaching individual topics ask students to identify, or draw their attention to, potential careers linked to the content and skills being taught.

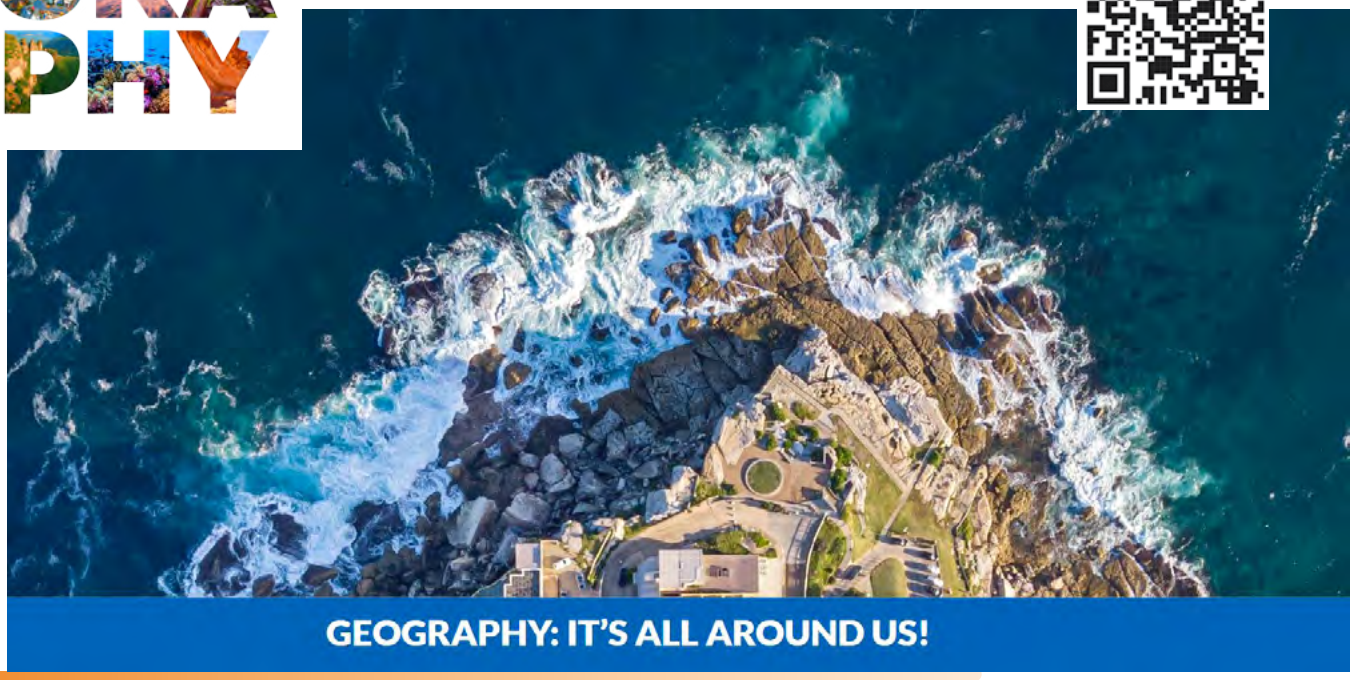
GTA NSW & ACT Careers posters have been developed for this purpose. They range from large A1 sized posters to a set of six smaller sized A3 posters.

GTA NSW & ACT CAREERS POSTERS



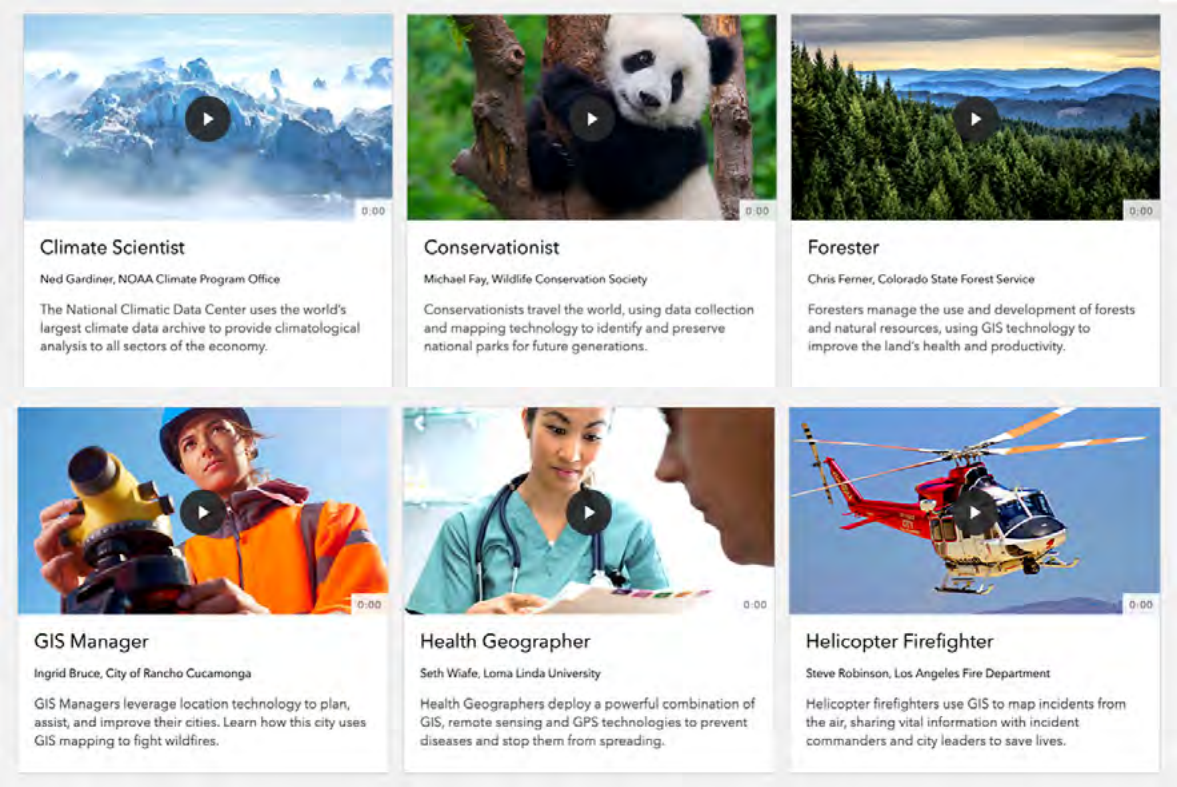
AGTA CAREERS WEBSITE #GOWITHGEO

This rich website provides students further insights into careers linked to studies in Geography. It can be found using the weblink https://www.gowithgeo.com.au or the QR here.



ESRI WEBSITE

Watch these careers video clips HERE https://www.esri.com/en-us/what-is-gis/careers



SHE MAPS – CAREERS USING DRONES

SHE MAPS have created a set of posters you can also print for your classrooms:

- 28 Future Drone Careers infographic
- Careers poster biographies showcasing women who use drones in their job.
- Drones in forestry infographic

The infographic and samples of the career posters are included in this edition.

The SHE MAPS / FOREST LEARNING resources for Stage 4 and 5 'Drones in Forestry', have excellent resources on careers in forestry and the use of drones in those careers. Activities for students include creating a biography for a forestry worker. Visit the website here to download these free resources. https://shemaps.com/blog/drones-in-forestry-teacher-resources

A message from She Maps

The Australian Drone industry is booming, reportedly contributing AUD5.5 billion to the country's economy and by 2040, the economic impact of this industry is expected to reach AUD14.5 billion. The use of drones in different industries continues to grow and, as such, we are seeing an amazing array of new career pathways opening up for your students.

To uncover 28 Future Drone Careers, we highly recommend that you download our poster and display it in your classroom to continuously inspire your students.

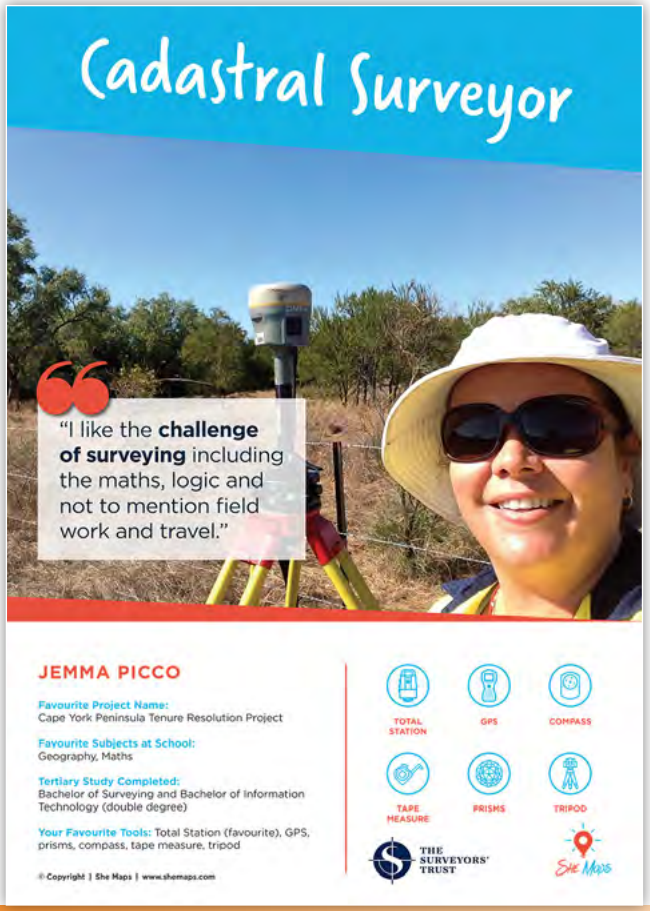
Future Drone Pilot Infographic

A recent report The Australian Surveying and Spatial Workforce – A National Roadmap highlighted the continued workforce shortages for surveying and spatially related occupations.

At She Maps, we are passionate about the geospatial industry, but career options in the geospatial industry are invisible to the large majority of students. This is why we've developed a series of career posters so that schools can help inspire the next generation of geospatial experts.

CAREERS: DRONES

Print and display the posters in your office, corridors, or classroom. Incorporate the posters into your teaching or use them for class discussions. The posters are suitable for upper primary and secondary levels.



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: Alinaea Morgan, Immortal Eyes Photography

SARA WEBBER

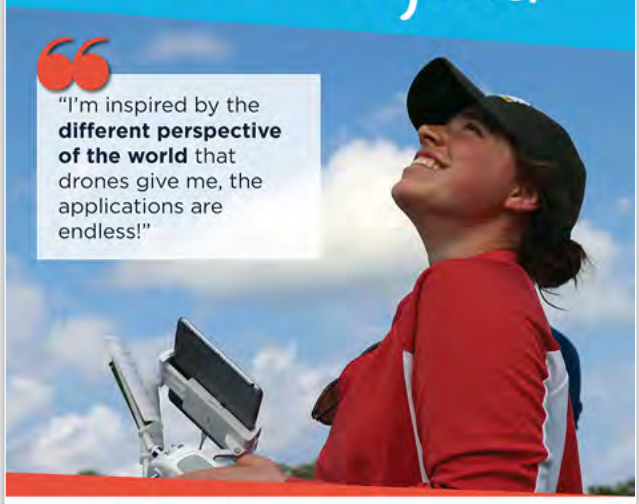
Sara Webber is a small business owner, drone/gaming nerd, landscape architect, and certified drone operator. She is passionate about her career using drones for photography, film, photogrammetry, and 3D design. She uses drones to create accurate maps of the landscape for site context analysis, and to 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

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

Marine Biologist

"I love **working with people** all over the world to help them use their drones to **benefit humanity and protect wildlife**."

ALICIA AMERSON

Alicia Amerson is a published author in marine biology, small business owner, and international speaker. She is a visionary with expertise in international marine conservation and biodiversity research projects and drone technology. Alicia is trailblazing the path to create a robust drone stewardship program focused on responsible practices for flying drones technology to benefit humanity and respect wildlife and wild spaces.

Favourite subjects at school: Science, Debating

Further study: Bachelor of Science (Biology); Masters of Science (Marine Biodiversity and Conservation/ Ecotourism)

CONSERVATION · MAPPING · MARINE POLLUTION · DRONE WORK · WHALES · SEA LIONS · SEA BIRDS · DOPHINS · She Maps

Drones in Forestry

FOREST LEARNING

SHE MAPS

MANAGEMENT
Canopy cover, tree numbers and volume estimation

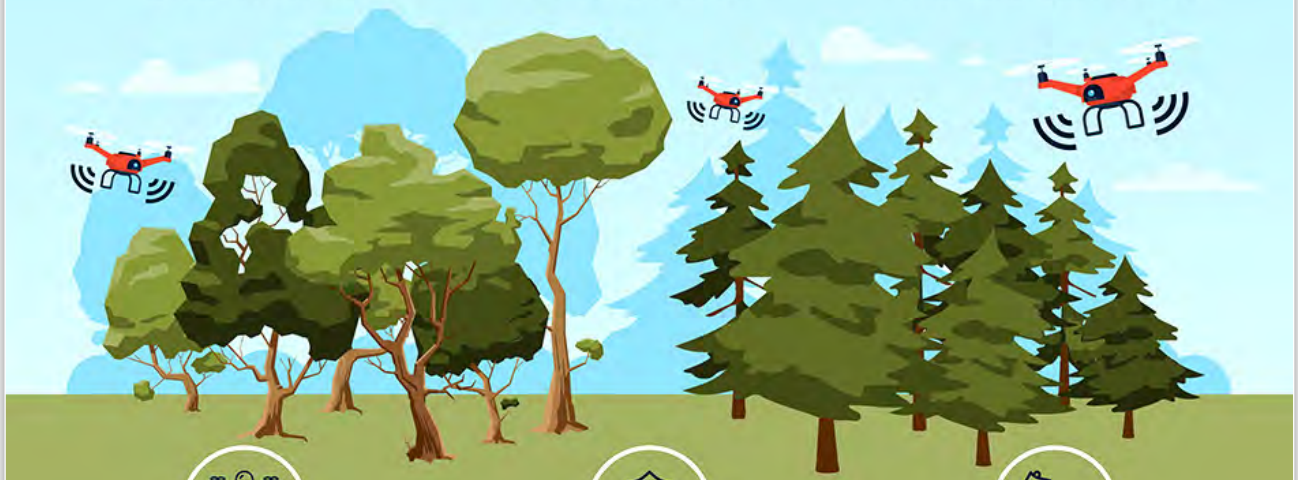
CANOPY
Monitor forest 'stands' and regeneration

MEASURING
Measurement of forest stockpiles and quarry material

RESTORATION
Conduct rapid surveys that reduce the cost and time for land restoration

PLANTING
Distribute seedlings and seeds in a fast and efficient manner

MAPPING
Secure 2D and 3D mapping of forest carbon storage, boundaries and monitoring



PLANTATION MANAGEMENT
Payload equipment can now spread fertilizer or spot herbicide over large, inaccessible areas

SECURITY
Monitor illegal logging

DEFORESTATION
Surveillance to capture images of people or activities that are involved in illegal deforestation activities

PLANNING
Measure area, boundaries, forest stands, ecology surveys, and forest tree species

BUSHFIRES
Monitoring and management activities including hazard reduction burns, smoke spotting detection and use of thermal imagery to identify hot spots

DISEASE
Check for forest pests and diseases


Career Pathways for Drones
Photography, Film & TV
Drones Mapping
Drone Transportation
Healthcare
Drones Surveying
Search & Rescue
Delivery/Fulfillment
Agriculture
Wildlife Tracking
Forestry
Researcher
Drone Journalism
GIS Mapping & Analytics
Data Analysis
Logistics
Aerial Weed Spraying
Swarm Artist
Theatre Choreographer
Police Drone Operator
Insurance
Real Estate
Construction
Building Inspection
Mining
Roof & Solar Inspection
Energy Inspection
Bridge Inspection
Stockpile Assessment
© She Maps 2021 | www.shemaps.com