Adrian Dillon

University of Tasmania
ATTACK OF THE DRONES!
Unmanned Aerial Vehicles

Autonomous Underwater Vehicles

Unmanned Aircraft System
**HOW CLOSE?**

- DO NOT fly closer than 30 metres to people.

**WHERE?**

- DO NOT fly over any populated areas such as beaches, other people's backyards, heavily populated parks or sports ovals where there is a game in progress.

**AIRFIELDS**

- DO NOT operate within 3 nm or 5.5 km of an aerodrome or helicopter landing site without approval.

**VISIBILITY**

- ONLY operate your RPA during daylight, good weather and in Visual-Line-of-Sight.

**HOW HIGH?**

- DO NOT fly above 400 ft.

**FPV**

- FPV Flying need an observer to maintain VLOS. Check with ACMA for video transmitting power.
Welcome to the Small Unmanned Aircraft System (sUAS) Registration Service

This site will allow you to register your UAS with the FAA and update your registration.

- REGISTER MY DRONE
- LEARN MORE

Do I need to Register My Drone?

You need to register your aircraft if it weighs between 0.55 lbs. (250 grams) and up to 55 lbs. (25 kg)
TOTAL FIELD IMPACT

From pixels to profits. Optimize inputs and take timely actions, based on powerful imagery-based analysis.

WHAT WE PROVIDE

From planting to harvest, we are with you every step of the way—delivering actionable insights in sync with your crop cycle and workflow. Our easy-to-use tools are grounded in science and your in-field expertise.
UAV OIL AND GAS INSPECTION SERVICES

WE ARE SKY-FUTURES
Sky-Futures provide safe, cost effective and experienced Unmanned Aerial Vehicle (UAV) Oil and Gas inspection services:
- Offshore and onshore inspections
- HD video, still and thermal imagery
- Technical inspection reports
- Experienced Remote Pilots

SECTORS
- OIL AND GAS - OFFSHORE
- OIL AND GAS - ONSHORE

LATEST NEWS
- Sky-Futures and Flyability Partner for First Internal Tank Inspections
  READ FULL STORY
- Sky-Futures interviewed by Bloomberg TV Malaysia
  READ FULL STORY
- Sky-Futures support development of guidance for UAS inspections
  READ FULL STORY
SKYSPECS IS CHANGING THE WAY ENTERPRISES INSPECT, COLLECT & ANALYZE DATA

SkySpecs' Drone Technology
At Aerial Inspections we pride ourselves on our ability to deliver **Safe**, **Intelligent**, and **Creative** solutions with the use of our UAV Systems. Be it aerial imagery for a cinema release, aerial survey, or inspection of difficult to access areas, we are here to assist in providing state of the art technical and creative solution in a safe and professional manner.

For more information on how we can assist with your projects send a request through, and we will be in touch to work out a solution with you.

We look forward to speaking to you!
現在プレイしているホールを選んでください
ホールは次回画面でも変更できます
Hole11
Hole11
Predicted value of drones by industry

- Infrastructure: $45.2 billion
- Agriculture: $32.4 billion
- Transport: $13 billion
- Security: $10 billion
- Media & Entertainment: $8.8 billion
- Insurance: $6.8 billion
- Telecommunication: $6.3 billion
- Mining: $4.4 billion

Source: PwC
Unmanned aircraft systems job potential

The drone industry has the potential to create more than 70,000 new jobs, including more than 34,000 in manufacturing, nationwide in the first three years. The jobs will be high-paying and require technical degrees.

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant</td>
<td>$70,500 - $145,000</td>
</tr>
<tr>
<td>Systems Engineer</td>
<td>$72,350 - $127,000</td>
</tr>
<tr>
<td>UAS Pilot</td>
<td>$85,000 - $115,000</td>
</tr>
<tr>
<td>Instructor/Training</td>
<td>$74,500 - $93,000</td>
</tr>
<tr>
<td>Payload Operator</td>
<td>$74,500 - $93,000</td>
</tr>
<tr>
<td>Imagery Analyst</td>
<td>$57,350 - $84,600</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>$45,700 - $67,890</td>
</tr>
<tr>
<td>Maintenance Specialist</td>
<td>$59,500 - $67,500</td>
</tr>
</tbody>
</table>
Where is the Jobs Growth Right Now...

Cartography / Photogrammetry – No. 15 in top 20 Jobs: Forbes

• “The use of photography in surveying and mapping to measure distance between objects”
• Expected growth rate of 29% per annum
• Medium pay of ~$75,000

Sectors Benefiting from Drone Mapping & Photogrammetry:

• Agriculture
• Construction
• Environmental
• Humanitarian
What’s New in last 6 months

• FAA & CASA relaxed flight rules for UAS
  • August FAA relaxed commercial licencing requirements for UAV’s weighing less than 25Kg. CASA similarly in October

• US Govt funds Google’s Drone Delivery Project
  • Project Wing. US Govt will provide US$35M in research funding to accelerate development

• Military drones ‘grown’ in large-scale labs
  • BAE Systems developing a Chemputer - grow aircraft from a molecular level
What’s New in last 3 months (Cont.)

• Queensland invests $1 million into drones
  • To monitor infrastructure across multiple industries

• DJI geofencing prevents unauthorised use
  • Prevent drones from wandering into affected areas and hampering firefighting efforts
ATTACK OF THE DRONES