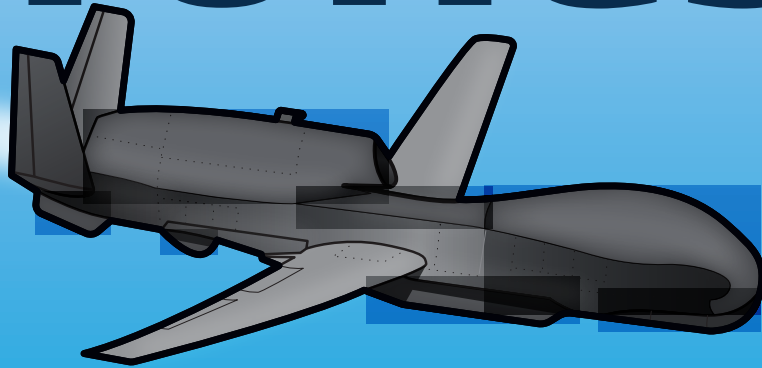


# Drones



A drone or a UAV (unmanned aerial vehicle) is a pilotless aircraft that operates through the utilization of a combination of technologies. While the typical drones are aerial vehicles, drones can also be ground or sea vehicles that operate autonomously. This transformative technology is reshaping the job market and how companies operate. Drones are being deployed to carry out various missions in almost every industry sector including fields like construction, utilities, public safety, border protection, agriculture, and transportation & logistics.

Between Now and 2020, Research Forecasts a **\$100 Billion Market** Opportunity for Drones.



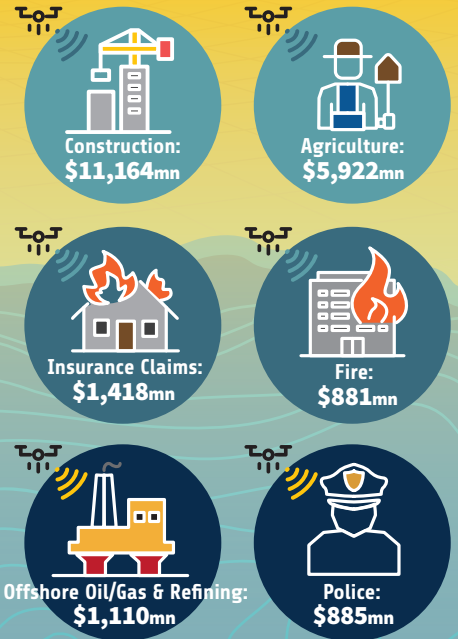
# \$100,000,000,000

# 600,000 JOBS

U.S. Companies Who Currently Operate Drones Represent **600,000 Jobs** Today

“Current drone technology has already surpassed manned aircraft in endurance, range, safety and cost efficiency.”

## Job Opportunities



## San Diego

### Key Companies in San Diego:

- 5D Robotics
- Action Drone
- Aquaai
- BAE Systems
- Brain Corp
- CAE U.S.A.
- Citadel
- General Atomics ASI
- Inova Drone
- Kratos Defense
- L3 Technologies
- Northrop Grumman
- Planck Aerosystems
- Ocean Aero
- Qualcomm
- San Diego Gas and Electric
- Shield AI
- Soft Incorporated
- Teledyne Technologies



### Other Companies of Interest in California

- Amazon (PrimeAir)
- Facebook
- Alphabet (X. The Moonshot Factory)
- Matternet



### Department of Defense

San Diego County Receives the Highest Concentration of DoD Funding for Unmanned Systems Technology of Any Location in the Country.



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# Drones

“NASA is leading a multibillion-dollar effort to develop a US airspace management system capable of safely coordinating manned and unmanned flight, while the Federal Aviation Administration (FAA) is expected to further ease restrictions that are keeping commercial drones from reaching their full potential.”

## Sample Jobs Median Salary Info



**100,000+ Jobs**

By 2025, the total job creation in the Commercial Drone Industry is estimated at 100,000+!

According to the Association for Unmanned Vehicle Systems International (AUVTI) Source: <http://www.calso.co/dronesngood.html>



Job Title	Hourly Rate	Yearly Salary
Aerospace Engineering and Operations Technicians	<b>\$35.92</b>	\$74,713
Avionics Technician	<b>\$33.99</b>	\$70,699
Drafter, Engineering, and Mapping Technicians	<b>\$20.41</b>	\$42,453
Electrical & Electronics Engineering Technicians	<b>\$30.78</b>	\$63,690
Engineering Technician	<b>\$34.05</b>	\$70,824
Flight Test Engineer	<b>\$41.06</b>	\$85,416
Manufacturing Engineer	<b>\$51.83</b>	\$107,810
Mechanical Engineer	<b>\$51.62</b>	\$107,370
Media and Communication Workers	<b>\$20.96</b>	\$43,597
Mechanical Engineering Technicians	<b>\$30.75</b>	\$63,960
Photographers	<b>\$16.38</b>	\$34,070
Software Engineer	<b>\$50.67</b>	\$105,394
Surveying & Mapping Technicians	<b>\$33.61</b>	\$69,910
UAV/Drone Pilot	<b>\$30.89</b>	\$64,259

### Sample Drone Related Job Titles:

UAV System Technician	Autonomous Systems Software Engineer	Drone Pilot	Flight Director	UAV Operations Technician	Unmanned Aircraft Pilot
Aerial Cinematographer/Operator	Avionics Technician	Pilot Unmanned Aircraft Systems	Production Assistant	UAV Instructor	Unmanned Aircraft Systems Operator
A&P Specialist	Camera Operator	Drone Repair Technician	Photographer	Unmanned Air System Prototyping Engineer	
	Drone Operator	Drone Robotics/ Aerial Cinematography	Mapping Technician		
	Drone Owner		UAV Pilot		

### Specialized Skills:

Customer Service	GIS	Mapping	Product Packaging
Drone Safety	Knowledge of Federal Aviation Regulations	Maintenance	Technical Writing
Editing Software	Scheduling	Mechanical/ Manual Dexterity	Videography
Financial Planning		Photography	
Flight Planning			

### Soft Skills:

Troubleshooting	Preventive Maintenance
Communication Skills	Organizational Skills
Computer Literacy	Planning
Leadership	Building Effective Relationships
Detail-Oriented	Teamwork/Collaboration
Problem Solving	



## Orange County Programs

### Santa Ana College

<https://www.sac.edu/AcademicProgs/Drones/Pages/default.aspx>

### Coastline College

<https://www.coastline.edu/programs/digital-media.php>

### Orange Coast College

<https://catalog.cccd.edu/orange-coast/pathways/industrial-technology/aviation-science/unmanned-aircraft-systems-certificate-specialization/>

### Cypress College

<https://cte.cypresscollege.edu/atc/uas-drone/>

### Fullerton College

<https://drones.fullcoll.edu/>



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