

Drone Flight Arena Toulouse Occitanie

# Ecole Nationale de l'Aviation Civile

## [Drone Flight Arena Toulouse Occitanie](#)

This platform offers the scientific community the possibility of conducting experiments with micro-drones and embedded systems in one of the most hi-tech instrument equipped indoor flight zones in Europe.

The Toulouse Occitanie Drone Flight Area is a means of experimentation for micro-drones which is unique in Europe, designed as a specialised laboratory for research on drones and embedded systems and shared by the ENAC, companies in Toulouse, and the ENAC's French and international partners in industry and academia.

The Drone Flight Area of Toulouse Occitanie is for carrying out large scale simulations that combine the physical world (the reality of flight) with the virtual world (air traffic and drone simulators). It aims to facilitate the development of next generation onboard auto-pilots, more secure drones with longer autonomy, and to unlock the science involved in the fusion of multi-sensor data and robust control. The Drone Flight Area offers an indoor flying space for large drones.

It is equipped with high-precision localisation and measuring instruments for rigorously measuring, monitoring, and analysing experimental conditions and results in an environment which allows for accurate replication of experimental conditions.

Main features :

- 560m<sup>2</sup> gross floor area
- 10x10x10m, flying area
- Opto-electronic system 16 cameras, 200Hz
- Embedded systems and IT laboratory
- Integration room, mechanical workshop, composite material laboratory
- Shared storage and equipment space
- A public demonstration space of 80m<sup>2</sup> available for welcoming up to 50 people





Documents

See as well

Contact

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**Source URL:** <http://www.enac.fr/en/drone-flight-arena-toulouse-occitanie>