

Press release

Toulouse, July, 6th, 2017

AIRBUS HELICOPTERS and ISAE-SUPAERO (Toulouse, France) create the Advanced Master's program, Helicopter, Aircraft and Drone Architecture:

The first advanced degree program dedicated to aircraft, helicopter and drone architecture



Degree programs designed for professionals and specialists must integrate the evolutions and needs of the sector concerned. This is true in the aeronautics field where the development of drones accounts for a significant share of the market which will continue to grow in the future. And many technical, industrial, regulatory and logistic constraints have emerged in this sector of the future.

By 2025, the civil drones market in France promises to grow 25% for operators and nearly 20% for manufacturers. The international market and professional uses point to a spectacular leap in particular in the fields of safety, thermography, inspections and surveillance. The security and defense sectors are also very concerned by the development of high performance drones.

Today, AIRBUS HELICOPTERS and ISAE-SUPAERO have significantly expanded the Advanced Master's program, «*Aircraft and Helicopter engineering*» which has existed since 2003. Now, called «*Helicopter, Aircraft and Drone Architecture*», this degree program includes three components dedicated to helicopters, fixed wing aircraft and drones. Around one hundred hours of courses are also dedicated to design, certification and operation of autonomous systems. This section completes the fundamental concepts in architecture and regulatory aspects of aircraft as well as flight dynamics, propulsion, avionics, piloting, and guidance of helicopters and aircraft.

Unique at the international level, this program provides technical skills as well as advanced engineering expertise preparing graduates to identify problems, envisage alternatives, and adapt solutions on aircraft, helicopters and drones. It answers the growing need of aeronautics manufacturers and designers of drone systems who are seeking engineers capable of switching easily from one type of aircraft to another.

AIRBUS HELICOPTERS and ISAE-SUPAERO have reinforced their partnership by launching this innovative program, of which 25% of the courses are delivered on the site of Airbus Helicopters in Marignane in Southwest France.



Other industrial firms, including Thales Systèmes Aéroportés SAS and the SME Delair Tech, support this approach which reinforces the positioning of the European industry on the international market.

About Airbus

Airbus is a global leader in aeronautics, space and related services. In 2015, it generated revenues of €64.5 billion and employed a workforce of around 136,600. Airbus offers the most comprehensive range of passenger airliners from 100 to more than 600 seats. Airbus is also a European leader providing tanker, combat, transport and mission aircraft, as well as Europe's number one space enterprise and the world's second largest space business. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide

About ISAE-SUPAERO

A world leader in higher education and research in aerospace engineering, ISAE-SUPAERO offers a complete, unique range of advanced higher education programs including the ingénieur ISAE-SUPAERO program and CNAM-ISAE apprenticeship program, 1 masters « Aerospace Engineering » delivered in English, 5 research masters, 15 advanced masters , and 6 Doctoral schools. ISAE-SUPAERO has developed a research policy resolutely focused on answering the future needs of the aerospace industry and other high technology sectors. Close collaboration with industry is reflected in the Institution's ongoing commitment to developing teaching and research chairs in strategic fields, as well as in the many lecturers from industry who contribute to the School's programs, keeping students attuned to the latest technological innovations and the best industrial practices.

On the international level, ISAE-SUPAERO cooperates with premier European universities (TU Munich, TU Delft, ETSIA Madrid, Politecnico Torino et Milano, KTH Stockholm, Imperial College, Cranfield), North American institutions (Caltech, Stanford, Georgia Tech, UC Berkeley, EP Montreal...), ... and Latin American and Asian universities.

The ISAE-SUPAERO learning community includes 100 professors and researchers, 1800 lecturers from industry, and nearly 1700 undergraduate and post-graduate students. Every year, over 30% of the Institute's graduates are international students, and the alumni network includes over 21 500 former graduates.

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