

Online Post Master's Degree in Sustainable Aviation

Interdisciplinary program for aeronautical engineer/designer
in adaptation and mitigation of air transport

Target audience

Designed by ENAC and ISAE-SUPAERO for executives and leaders in Air Transport Sustainability, including Aircraft Design, Airlines, Airports and Air Traffic Management.

Objectives

1. Assess the environmental impacts (climate, resources, biodiversity) of aviation products and services
2. Design technical solutions and robust business models to improve the sustainability of a product or a service
3. Develop a multidisciplinary and systemic overview, adapted to a complex environment
4. Plan policy-relevant strategies and lead the implementation of innovative solutions within the organizations

Prerequisites

Master's degree or equivalent, with a good knowledge of the aviation sector, including professional experience.

Training themes

Aviation and its interactions with the environment (climate, resources such as energy, metals, etc.), complex and multi-disciplinary systems, eco-design of products and services, low-carbon energy carriers (including sustainable aviation fuels and hydrogen), certification of innovations and digital technologies.



Online training

Learning together, through collaborative and intercultural workshops, improving personal skills thanks to adapted use cases such as SAF-strategy implementation, eco-design of a drone service, retrofit of technical innovations on a regional aircraft, design of innovative air traffic management and airport operations.

Learners are required to conduct a 4-month in-company assignment within a company or a laboratory, jointly supervised by the host institutions ENAC and ISAE-SUPAERO.

They are also required to complete a professional thesis, which includes a written memoir and an oral defence, both contributing to the final evaluation.

contact

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Main assets and motivation reasons

- Take a high-level scientific training course to accelerate your career and develop technical and business model skills
- Gain recognition thanks to a high-level diploma delivered by internationally recognized high schools/universities
- In line with labor market needs: societal and economic challenges to decarbonize the aviation sector to achieve the objectives defined at global, european and national level.
- Innovative teaching methods, multicultural groups, highly qualified lecturers and supervisors from the academia and professional sectors, international alumni network, tutoring
- Fully online program with large asynchronous sequences: flexibility to organize your learning, and to balance professional career and personal development
- From 1 day to 1 year training programs (Executive Master, certificates, MOOCs, ...)

Career opportunities

Professional Domains

Aerospace Engineering • Industries • Production, Manufacturing • Sustainability • Airport and Airline Operations • Infrastructure • Aircraft Maintenance and Certification • Organization • Business Management • Air Traffic Management

Main Employers

Commercial concessionaires, Air Navigation Service Providers, aeronautic industry manufacturers, construction companies, handling companies, security companies, maintenance companies, equipment supply companies

Career Opportunities

- Aircraft Systems Design Engineer
- Aircraft Maintenance Engineer
- Structural Research and Development Engineer
- System engineering architect or manager
- Industrial Architect
- Aviation Sustainability Managers
- Aeronautical Transformation Architect
- Chief Sustainability Officers
- Sustainability Consultants
- Production Unit Manager
- Industrialization Engineer
- Integration Engineer
- Project Engineer, Business Engineer, Project manager
- Safety Engineer
- Quality Engineer, Process Engineer
- Aviation Operations Expert
- Airline Operations Manager
- Airport Operations Manager
- Air Traffic Control Manager
- Aviation Safety Manager
- Consultant in Aeronautics
- Renewable Energy Engineer, Aviation Fuel Managers