



Open Job Position Assistant Professor in Electromagnetics

Context

ENAC, the French Civil Aviation University, is one of the most important aeronautical Universities in Europe. ENAC offers a wide range of education programs, e.g. air transport pilots, air traffic controllers, or highly-qualified engineers that will design new and improve existing aeronautical systems.

ENAC research laboratories work in cooperation with the best Universities worldwide to provide a safer, more efficient and more sustainable air transport system. Among them, the TELECOM team aims at improving the Communications, Navigation and Surveillance (CNS) systems that work in a very requiring context in terms of performances and safety. This team has three research axes. One of them, the ElectroMagnetics et Antennas (EMA) axis, carries out researches in electromagnetics to develop aeronautical systems and maintain their performances in complex environments. This includes several areas, e.g. small-size antenna design for radio direction finding and GNSS, models for the atmospheric propagation, or models to study the impact of ground infrastructures (notably windturbines) on the performances of CNS systems.

The EMA axis works for and in collaboration with the civil aviation authority in France (DGAC) and Europe on topics related to antennas and propagation. This axis also performs research project with aeronautical and aerospace industrial partners.

Proposed position

The hired assistant professor will be part of the EMA axis in the TELECOM team. He will have a double mission of teaching and researching in the domain of electromagnetics, and more specifically antennas and propagation.

More precisely, he will be in charge of the following activities:

- to perform teaching activities in electromagnetics (antennas, propagation, analogue and RF electronics, electromagnetic compatibility) in the framework of aeronautical systems;
- to develop and improve the teachings, notably using research results and new pedagogic tools;
- to develop synergies between teaching and research activities;
- to perform research and expertise activities in the domain of electromagnetics, antennas and propagation;
- to contribute to the scientific dissemination by publishing in high-level journals and conferences, by supporting innovations resulting from the research activity, and by organizing workshops and conferences;
- to develop scientific cooperations and partnerships with industry and academia at national and international levels;
- in coordination with the head of the axis, to participate in finding new fundings, contracts and collaborations in his domain of research;

- to participate in applied research projects, notably the ones led by the transverse programs of ENAC;
- to supervise PhD students;
- to participate to defense jury for various ENAC programs as a referent teacher or expert;
- to perform or contribute to expertise activities for teaching projects (new programs, new pedagogical tools), or for projects in collaboration with DGAC and industry, more particularly in the framework of the simulation of propagation.

Applicant Profile

Applicants must:

- have a PhD in electromagnetics;
- have a significant research experience in electromagnetics proven by high-level publications;
- know scientific programming languages (Matlab, Python, C, Fortran) and electromagnetic simulation software (FEKO, HFSS, Comsol);
- have a significant teaching experience;
- know the domain of air transport.

The annual gross salary will be between 45k€ and 65k€ depending on the age and profile of the chosen applicant.

Application

For any further information, contact

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- Christophe Macabiau, head of the TELECOM team
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To apply, send a CV with a list of publications and a cover letter to alexandre.chabory@enac.fr and christophe.macabiau@enac.fr by 14/08/2018.