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News

Fundamental Research

Life cycle analysis (LCA) Biofuels and e-fuels Hydrogen

High performance computing

ONERA and IFPEN reinforce their collaboration to address the challenges of the civil and military aviation sector

ONERA and IFP Energies nouvelles (IFPEN) signed a partnership agreement on 10 July in Palaiseau. The purpose of this agreement is to develop the techniques and technologies of tomorrow in the fields of the environment, energy and transport propulsion.
More specifically, this partnership agreement concerns the following seven themes:

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- • Electrofuels and new fuels
  - Dihydrogen combustion and the risks of deterioration and corrosion of materials
  - Identification and monitoring of carbon storage facilities using drone or satellite data
  - Life cycle analysis in the aviation sector
  - Hybrid propulsion and onboard energy management
  - Wind power
  - High-performance computing and data

For each of the themes, research projects will be conducted jointly and associated with co-supervised PhD theses.

> *“This collaboration with IFPEN is important for the scientific and technical development of sustainable aviation. Decarbonization, the reduction in energy consumption and the optimization of airport traffic are major research areas for ONERA (the French aeronautics, space and defense research lab) in line with the CORAC (French civil aviation research council) roadmap. Moreover, ONERA has undertaken to integrate an effective CSR policy at the heart of its operations and activities by joining the sustainable development club for public establishments and public enterprises (ClubDDEP) in 2022.”*
> *Bruno Sainjon, CEO, ONERA.*
> *For Pierre-Franck Chevet, Chairman of IFPEN, “This agreement reflects our mutual determination to reinforce our collaboration with a view to advancing the energy transition in the aviation sector. The complementary nature of our expertise will enable us to overcome scientific challenges and accelerate the development of innovative technologies, particularly for the decarbonization of the aviation sector.”*

About IFPEN
IFP Energies Nouvelles (IFPEN) is a major player in research and training in the areas of energy, transport and the environment. From scientific concepts in fundamental research to technological solutions in applied research, its activities revolve around innovation, based on four key priorities: climate, the environment and the circular economy; renewable energies; sustainable mobility; responsible oil and gas.

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About ONERA, the French aerospace research center
ONERA, a pivotal player in the field of aeronautics and space research, employs around 2,000 people. Under the authority of the French Armed Forces Ministry, it has a budget of 289 million euros (2023), more than half of which comes from study, research and test contracts. As a government expert, ONERA prepares the defense of tomorrow, addresses future aeronautics and space challenges and contributes to the competitiveness of the aerospace industry. Its expertise covers all of the disciplines and technologies within the field. ONERAS’s influence can be found in all major civil and military aerospace programs in France and Europe: Ariane, Airbus, Falcon, Rafale, missiles, helicopters, engines, radars, etc. Recognized on the international stage and the winners of many awards, its researchers train numerous PhD students.
https://www.onera.fr

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