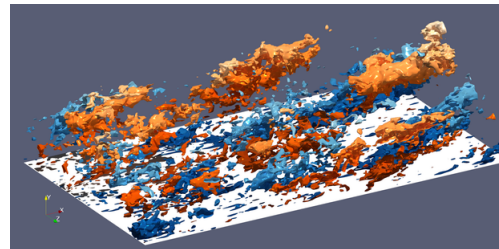
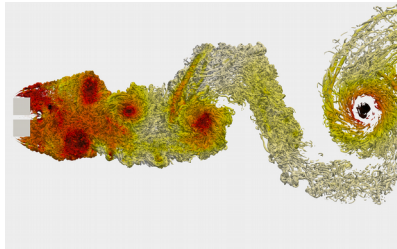
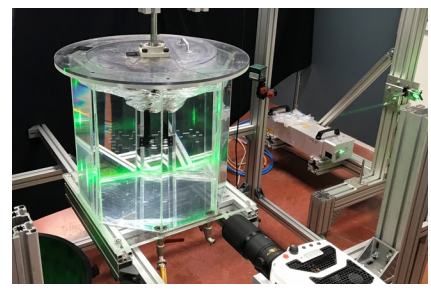
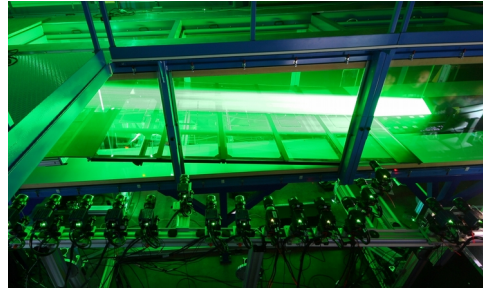
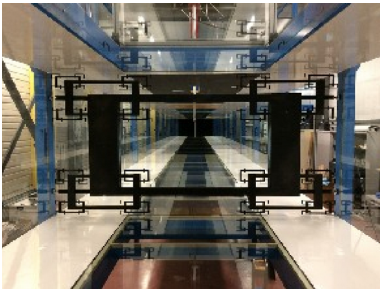


## 2-years Post-Doc

### ERC NoStaHo

#### NON-STATIONARY NON-HOMOGENEOUS TURBULENCE



#### Subject:

The past 5 years have seen a number of advances which overturn cornerstone turbulence textbook material and create an unprecedented opportunity for a potentially decisive breakthrough in our fundamental and general understanding of turbulent flows which are typically non-stationary and/or non-homogeneous. These recent advances concern non-stationarity and non-homogeneity in fundamental ways and open new research opportunities with many new questions and hypotheses. This project will seize these new research opportunities with a combination of laboratory, computational and theoretical methods applied to a variety of turbulent flows. The expected outcome is an extensively transformative fundamental understanding and theory of non-stationary and/or non-homogeneous turbulence, and a consequent road map for future disruptive turbulent flow prediction methods.

Applications are now invited for one 2-year post-doctoral position. The post-doctoral fellow will participate in a wide team effort involving a number of post-doctoral researchers and PhD students supported by ERC Advanced Grant NoStaHo and led by J.C. Vassilicos at the Laboratoire de Mécanique des Fluides de Lille (LMFL) in France. The research will be based on the combined study of various turbulent wakes, jets and boundary layers with the aim to educe new non-equilibrium turbulence physics and model them.

**Laboratory:** (<http://lmfl.cnrs.fr/>)

Laboratoire de Mécanique des Fluides de Lille – Kampé de Fériet ([LMFL](http://lmfl.cnrs.fr/)) is a joint laboratory between: ONERA, CNRS, Centrale Lille, University of Lille, Ecole Nationale Supérieure d'Arts et

Métiers (ENSAM), where 35 permanent researchers and engineers work in the fields of turbulence, aerodynamics and flight physics. The team hosting the Post-Doc is involved in the fundamental and applied study of turbulence and optical measurement techniques.

**Fellowship:**

There is flexibility on the starting date of the 24-month post doctoral fellowship, but it should not be too far from March 1st 2023.

**Candidate:**

The applicants should have an experimental background with experience in analysing high fidelity databases and a PhD in some area of turbulent flow mechanics, physics or modeling. Candidates should apply through the CNRS portal [CNRS job portal](#) by 20/01/2023.

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