



Short Training Programme

The von Karman Institute for Fluid Dynamics (VKI) offers university students in engineering, physics or mathematics a hands on training for a period of two or three months, involving **active participation in a guided research project**.

This experience will provide practice in the use of experimental test facilities or computational and laboratory techniques. Added benefits are the exposure to methodology of research and team work in an international, multicultural environment.

In a number of cases, this programme can also be used to prepare a MS graduation thesis at the home university.

No fee associated with this programme.
Limited number of fellowships available for highly qualified students.

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Subjects for research projects include:

Environmental and applied fluid dynamics

Fluid mechanics in the environment

- wind effects on buildings
- vehicles aerodynamics
- wind energy
- heat transfer and two-phase flows

Fluid mechanics in industrial processes

Non-intrusive instrumentation

Biological flows

Aeronautics and aerospace

Aeronautical flows

- from low speed to supersonic aerodynamics

Aeroacoustics

Space applications

- atmospheric entry aerothermodynamics
- plasma flows

Computational methods for flow simulation (CFD)

Turbomachinery and propulsion

Axial and radial compressors, gas and steam turbines

- aerodynamic design, optimization and analysis
- unsteady flows and blade row interactions
- heat transfer and cooling
- fast-response instrumentation

Access to an extraordinary set of wind tunnels covering all regimes, from low subsonic to hypersonic (Mach 14) flow

Free access to the internationally recognised lifelong learning programme: the VKI Lecture Series

For more information
consult our website: <https://www.vki.ac.be>