



## Academic Programmes

VKI is a non-profit international educational and scientific organisation, hosting three departments: aeronautics and aerospace, environmental and applied fluid dynamics, and turbomachinery & propulsion.

### Post-graduate Education

It provides post-graduate education in fluid dynamics (research master in fluid dynamics, phd programme, short training programme and lecture series) and encourages "training in research through research".

### Accredited by NVAO

NVAO ensures the quality of educational programs following the Bologna agreement for higher education in Europe.



### Research Master in Fluid Dynamics

The main programme offered by the von Karman Institute is the annual Research Master at the level "Master after Master", taking place from October until June. Approximately thirty-five engineers and scientists from ten or more countries attend this programme taking place in a unique international team spirit environment. They are offered a wide selection of specialized courses (min. 30 ECTS) on various aspects of fluid dynamics and are given the opportunity to perform a personal research project (30 ECTS) under close guidance by members of the faculty. The projects may be experimental, theoretical, or numerical in nature.

The VKI research master in fluid dynamics, focusing on teaching research by doing research, complements the master programmes of universities with a profound research oriented specialization.

### Short Training Programme

Qualified undergraduate students from universities may become acquainted with the work of the fluid dynamicist through participation in a research project at the VKI. The duration of the programme is typically two to three months.

### PhD Programme

Candidates typically enter this programme after completing the research master in fluid dynamics. The PhD thesis may be presented in English, French or Dutch at any Belgian university or at a university abroad leading to a degree of doctor in applied sciences. Presently, about 60 candidates are enrolled in the doctoral programme.

The benefits for the PhD candidate are considerable, allowing one to perform research based on the outstanding facilities and unique experience available at the VKI and to work in an international excellence center with colleagues from all over Europe.

### Postdoc Programme

The post-doctoral research programme allows selected top level researchers to pursue their research after the PhD, taking profit of the unique research facilities of VKI.

### Applied Research Programme

Graduates of the research master may be further instructed in the methodology of applied fluid dynamics and the practice of independent research for periods from some months to one year (ARO programme).

### Master Thesis Programme

University students enrolled in an engineering, industrial engineering or physics B.S. or M.S. programme may carry out their final year project at a laboratory of the von Karman Institute under the supervision of a VKI faculty member.

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