

CAS

Computational Fluid Dynamics



The CAS «Computational Fluid Dynamics» provides experts with comprehensive knowledge for the successful application of flow simulation - scientifically well-founded and practice-oriented.

Flow simulation is much more than operating simulation software. Experts must be familiar with the physical laws and models on which the software is based. They also need to know how these laws are solved by the computer using numerical methods. This is the only way to correctly identify possible sources of error in the process and ensure the quality of the simulation results.

In the **CAS «Computational Fluid Dynamics»**, experts acquire comprehensive, scientifically based knowledge for the successful application of flow simulations. They learn about Computational Fluid Dynamics (CFD) simulations using current best-practice approaches. In addition, they develop a deeper understanding of the physical principles of fluid mechanics and the mathematical concepts behind CFD simulations. In the supervised project work, the course participants carry out a CFD analysis for a specific problem from their everyday professional life. They are accompanied by simulation experts from the university.

Graduates of this continuing education programme have the theoretical and practical tools to carry out complex simulations. They are able to optimise their products and processes quickly and efficiently with computer-based flow simulations.

Target audience

The CAS «Computational Fluid Dynamics» is designed for engineers and scientists who work on fluid dynamics issues using CFD simulations in their professional practice or who would like to do so in the future.

Language

German or English (depending on participants), all documents in English.

Admission

Recognised tertiary degree, at least 1 year of professional experience in a relevant field of work.

Applicants who have other, comparable qualifications and corresponding professional experience can be admitted on the basis of an individual examination of the dossier.

Degree

Certificate of Advanced Studies CAS in Computational Fluid Dynamics (15 ECTS credits)

Duration

18 attendance days, extra-occupational during approx. 6 months.

(The number of attendance days varies depending on the form of teaching and learning. The current schedule on the website is binding).

Costs

CHF 10800.– incl. teaching materials, performance records and certificate (prices subject to change)



ost.ch/cas-cfd