Simcenter STAR-CCM+ academic program

Preparing students for careers involving engineering simulation technologies

Benefits

- Enable students to develop CAE simulation skills for future careers
- Use the same fluid dynamics solutions as industry
- Provide access to support and information via Siemens Digital Industries Software's Steve Portal knowledgebase
- Leverage STAR Academy online training through the Steve Portal knowledgebase
- Enable students to join a community of academic and industry users

Summary

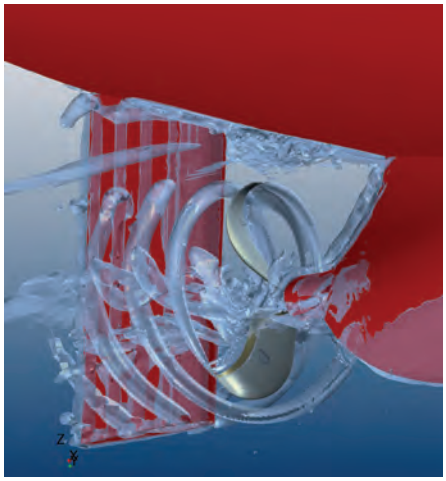
The job market for engineering graduates is becoming increasingly challenging as today's multinational corporations require new hires to have more knowledge than ever before about modern computational systems. The Siemens Digital Industries Software's academic program for Simcenter™ STAR-CCM+™ software provides universities with special licensing, training, support and teaching tools that benefit researchers, educators and students.

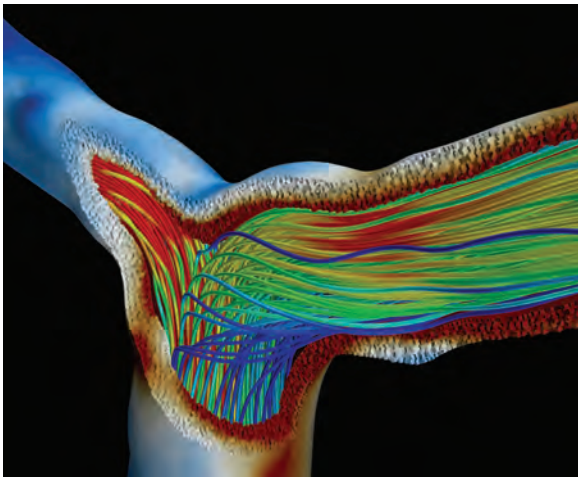
We are committed to helping engineering students prepare for careers involving multidisciplinary design exploration and computational fluid dynamics (CFD) simulations. Unlike companies that provide a feature-limited version for academia, our program includes the same no-cell-limit software that our commercial customers use.

Research centers, engineering educators and student design teams worldwide use Simcenter STAR-CCM+ to easily and accurately produce simulations. Students appreciate the easy-to-use, integrated set of tools to design, mesh, model and analyze simulations without using multiple software programs.

Academic program members

- Engineering educators
- Researchers
- Engineering students
- Student design teams
- University-industry cooperatives





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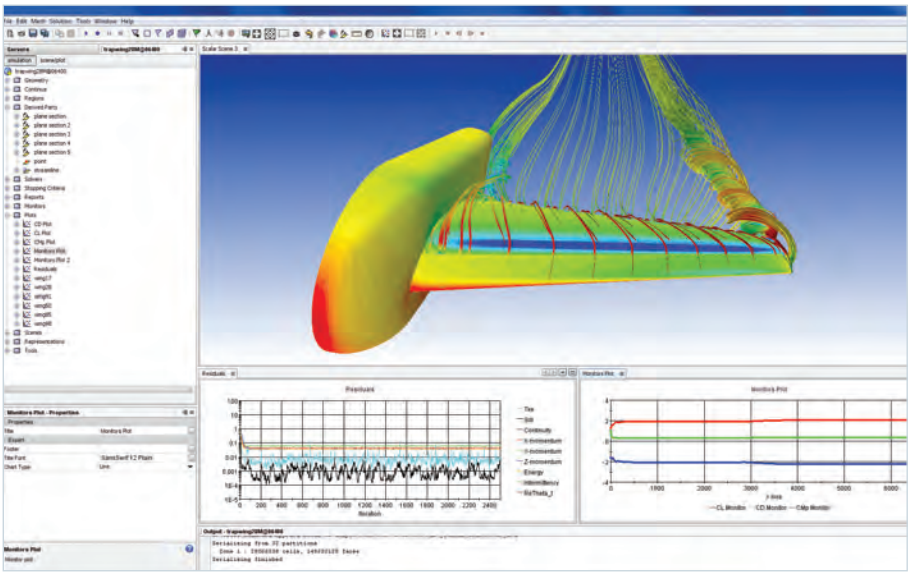

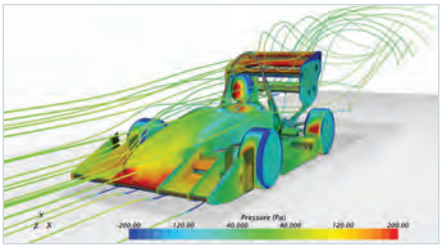

Software capabilities
Simcenter STAR-CCM+ has extensive capabilities all in one program, including computer-aided design (CAD), geometry, physics, mesh, workflow and postprocessing. The single integrated user interface can be used to simulate CFD, computational solid mechanics (CSM), heat transfer, multiphase flow, particle dynamics, reacting flow, electrochemistry, acoustics and rheology. Add-ons for Simcenter STAR-CCM+ include thermal comfort modeling, optimization and in-cylinder flow and combustion. Users can automate and accelerate the engineering design space exploration process by using our HEEDS™ software.

Student benefits
The academic program offers Simcenter STAR-CCM+ online training and self-certification to increase your value to hiring managers looking for new graduates with engineering simulation skills. Our alumni program will help keep your Simcenter STAR-CCM+ skills current.

Educator benefits
Lecturers and professors can use Simcenter STAR-CCM+ teaching and department packages to combine CFD software projects with their course work. Teaching materials and tutorials from professors using Simcenter STAR-CCM+ are available to enhance your students' learning experience. Our online training lets educators use the flipped classroom method with students reviewing basic CFD courses or Simcenter STAR-CCM+ training prior to lectures.

Researcher benefits
University researchers appreciate the fact that Simcenter STAR-CCM+ includes an extensive range of validated physical models that can be used to tackle the most complex engineering problems. Unique licensing options enable Simcenter STAR-CCM+ to run across unlimited processors for a fixed cost.

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