

## ESTECO Academy launches Design Competition 2016 in partnership with Aprilia Racing

*The new engineering competition will see students passionate about racing motorcycles from all over the world testing their skills in engineering analysis and simulation to design the perfect race engine*

Trieste, June 2016 – **ESTECO Academy**, in collaboration with **APRILIA Racing and Gamma Technologies**, launches its **2016 Design Competition** dedicated to Engineering Students around the world. The winning team will enjoy a **job experience with** the **APRILIA** Racing team, which has already won 54 world titles during its young history.

ESTECO, Aprilia Racing and Gamma Technologies are pleased to invite teams of undergraduate and graduate students attending the Faculties of - including but not limited to – Engineering in universities around the world, to submit their design project for a new, powerful and low fuel consumption engine.

The competition challenge consists in the **design of a 4 stroke single cylinder engine** through multidisciplinary optimization, using principles of engineering to find the highest **improvement** in the **engine performance**, respecting the constraints and starting from the baseline configuration provided. The submitted work should be innovative and demonstrate the use of the modeFRONTIER optimization platform and Gamma Technologies simulation solution; the jury will favor creative designs providing significant improvements in engine performance, fuel usage and sustainability.

“That’s a great opportunity for students that are stepping into the working world. Competing teams will benefit from a hands-on experience and **learn** how to balance the use of **cutting edge software** technology with their engineering skills, in the quest for the optimal design”, says Enrico Nobile, Scientific Advisor at ESTECO and Professor of Thermal Fluids at the University of Trieste.

### Important Deadlines

- + UM16 May 17-18 2016 > official launch
- + Sept. 22 2016 > Webinar | Presentation of the engineering challenge and Q&A session with Mario Manganelli - Racing Engine Development Manager, Aprilia Racing
- + End of November 2016 > closing team registration
- + End of April 2017 > closing submissions
- + June 2017 > award Ceremony

To download the full rules and register go to > [academy.esteco.com/competition](http://academy.esteco.com/competition)

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### **About ESTECO SpA**

ESTECO is a pioneer in numerical optimization solutions, specialized in the research and development of engineering software for all stages of the simulation-driven design process. Perfecting engineering and reducing complexity in the design process is our vision. Founded in 1999, the company is headquartered in Area Science Park in Trieste (Italy) and currently employs a variety of highly qualified professionals and serves more than 250 international clients including BMW, Daimler, Ferrari, FIAT, Ford Motor Company, Honda, Mazda, Toyota. modeFRONTIER, the company's key product, is a multidisciplinary and multiobjective optimization platform capable of streamlining the engineering process through innovative algorithms and integration with leading simulation software. In numerous industries, modeFRONTIER has become essential to increasing the understanding of cost/performance factors and reducing product development time. [www.esteco.com](http://www.esteco.com)

### **The ESTECO Academy Program**

ESTECO Academy aims to empower new pathways in STEM education, providing students around the world with new, practical competencies and state-of-the-art technology leveraged by industrial professionals to design the most innovative and complex products. This membership program provides access to software, dedicated online and offline training sessions and materials, certification exams and complementary seminars and events. [www.esteco.com/academy](http://www.esteco.com/academy)