SIMULATING
THE FUTURE

WORKSHOP:
GPUs ENABLING THE NEXT GENERATION OF CFD

JUNE
03rd
2025

ONLINE

FREE EVENT
3PM - Lisbon (GMT+1)
Duration: 2h

INITIATIVE

ESSS SPECIALIST

Rodrigo Peralta M. Moreira, PhD

CAE SPECIALIST

Chemical engineer graduated from the Federal University of Santa Catarina (UFSC), with a master's degree from the Federal University of Rio de Janeiro (UFRJ) and a Ph.D. in Chemical Engineering from Loughborough University. Has 15 years of professional and academic experience, with an emphasis on reactor engineering, heat and mass transfer, and multiphase processes. Currently works as a CAE Applications Specialist at ESSS, using Ansys simulation tools, especially in the area of computational fluid dynamics (CFD)

PROGRAM

GPUs Enabling the Next Generation of CFD

- Main advantages of the GPU solver in comparison with CPUs
- Presentation of Benchmarks with the Fluent GPU solver using NVIDIA and AMD GPUs
- Best practices of CFD simulations using GPUs: computational meshes, models and tips and tricks.
- Hands on: Using Fluent GPU solver and submitting a job in a cluster Slurm with the Fluent GPU solver

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