



# UNIMORE

UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



TECHINICAL SEMINAR OPEN TO THE DIEF COMMUNITY

## TECHNOLOGIES FOR CLEAN AVIATION CORPORATE RESEARCH IN A MULTIDISCIPLINARY ENVIRONMENT



**SEPTEMBER, 23RD 2025  
FROM 5 TO 7PM**

Room P2.5, MO25, via Vivarelli 10, Modena

MTU Aero Engines AG has been at the forefront of the engine industry for nine decades with every third commercial aircraft flying with MTU technology onboard. The talk comprises different innovation paths driven by the company and gives insights in the required technological expertise. Classical engines are driven toward more fuel-efficient, sustainable and noise-reduced versions. At the same time, the aim of emission-free flight is pursued by designing a Flying Fuel Cell™. On the way to a flying product, large-scale test rigs and numerical simulation go hand in hand. In the multidisciplinary design cycle, experts from backgrounds like fluid mechanics, thermals, structure mechanics, and material science collaborate in product development and research projects. A company presentation as well as selected technical topics will be presented.

Seminar organized by Prof. D'Adamo, within the “*Modelling of Electrochemical Machines Course*” on Vehicle, Mechanical and Materials Engineering Master Degrees

