ME4: INT. COMB. ENGINES AND TURBOMACHINERY

Track 4

Contacts:

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ME4: Skills you will acquire...

After graduating, you will have developed numerous **advanced technical skills**. For example, you will be able to:
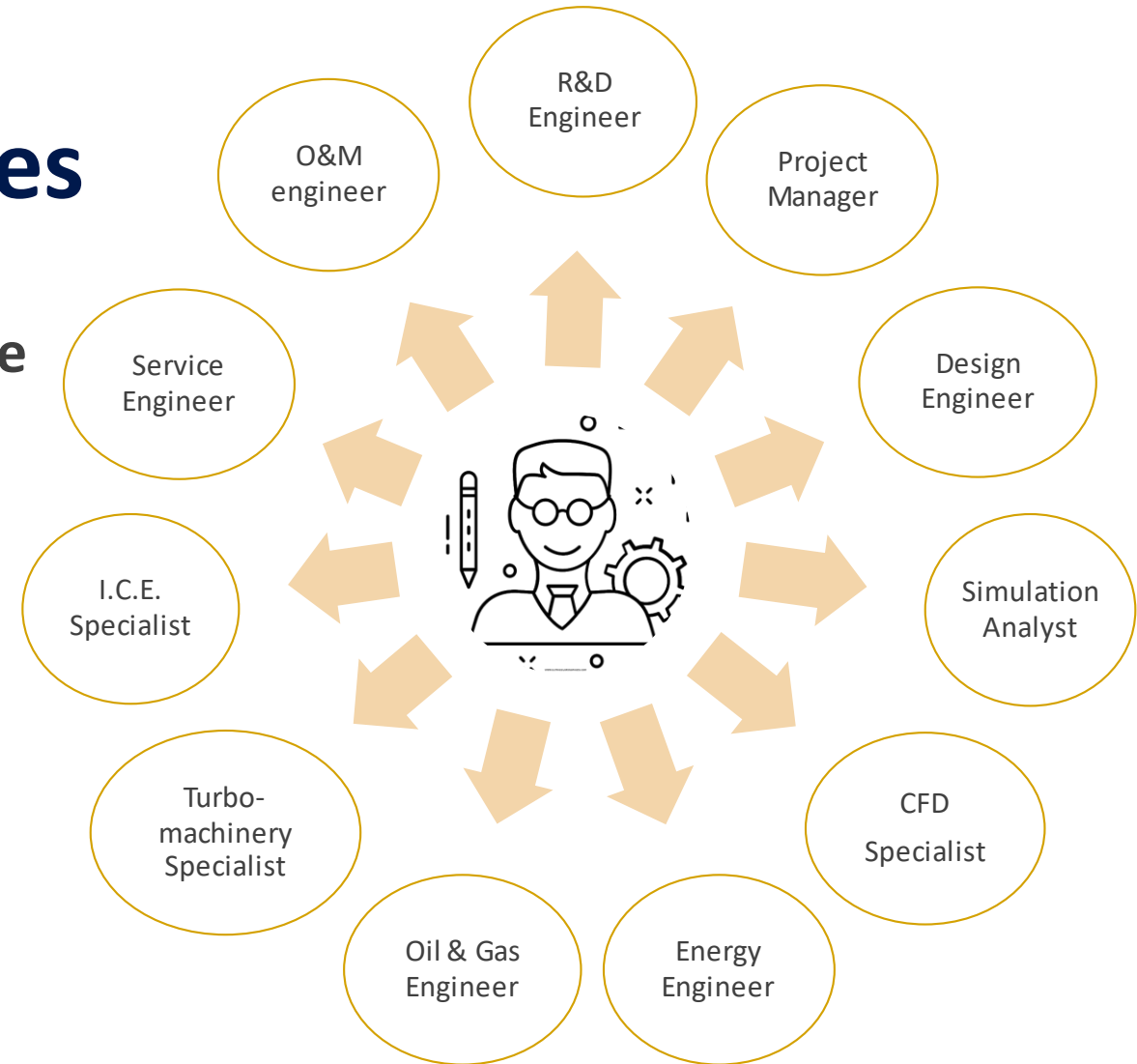
- **Design intake and exhaust systems;**
- **Design injection systems;**
- **Monitor engine performances, emissions and noise;**
- **Design compressors and turbines;**
- **Develop new measurements techniques;**
- **Carry out in-depth analysis of cascades and stages by experimental and CFD tools.**
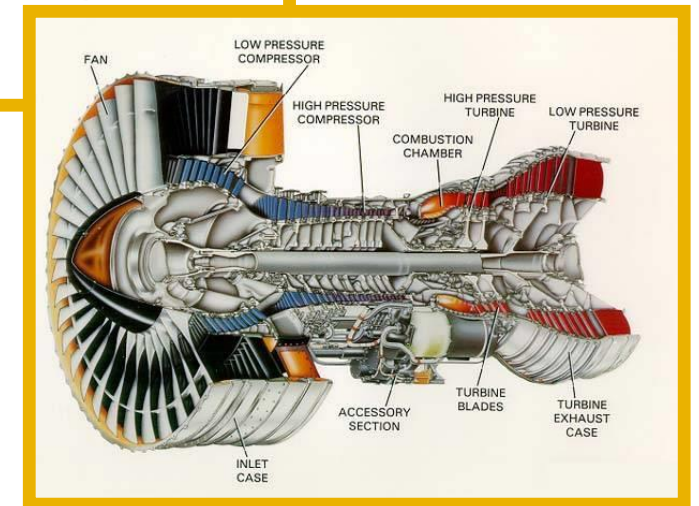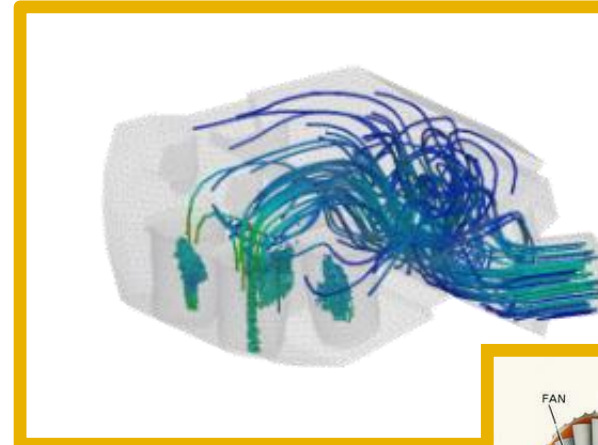
ME4: Career Opportunities

After graduating, you will be able to **pursue your career** (not only, but also) in:

- **R&D;**
- **Business Services;**
- **Mechanics and Installation;**
- **Energy, Oil and Gas Management;**
- **Consulting.**

R&D Engineer

Project Manager

O&M engineer

Design Engineer

Service Engineer

Simulation Analyst

I.C.E. Specialist

CFD Specialist

Turbo-machinery Specialist

Oil & Gas Engineer

Energy Engineer

ME4: Track Mandatory and Elective Courses

38 ECTS

- Track Mandatory Courses
  20 ECTS

- Track Elective Courses
  18 ECTS

| COURSE TITLE	SEM	ECTS
Internal Combustion Engines	1	10
Turbomachinery A	1	10
Track Elective Courses I		**6**
Power Production from Renewable Energy	2	6
Combustione e Sicurezza (IT)	2	6
Sistemi Energetici avanzati B (IT)	1	6
Modelling Techniques for Fluid Machines	2	6
Heat Transfer and Thermal Analysis	2	6
Track Elective Courses II (2 out of 17 courses available)		**12**
…	1-2	6
…	1-2	6
Max. 1 course to be chosen from Group OPEN	1-2	6

For further information click here :
https://www8.ceda.polimi.it/manifesti/manifesti/controller/extra/RegolamentoPublic.do?jaf_currentWFID=main&EVN_DEFAULT=evento&aa=2020&k_corso_la=483&lang=EN

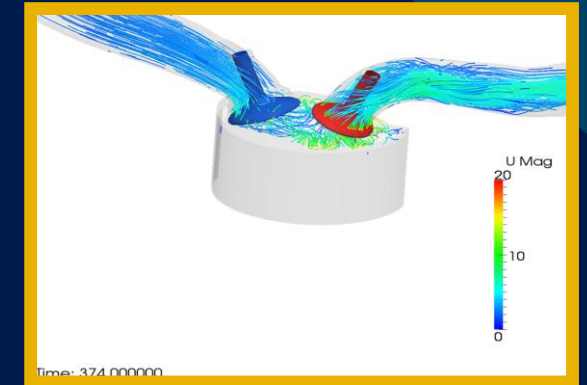# ME4: Examples of Master's Thesis
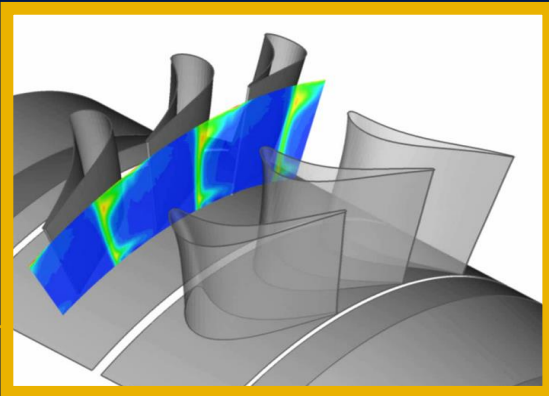
Experimental analysis of turbomachinery performances
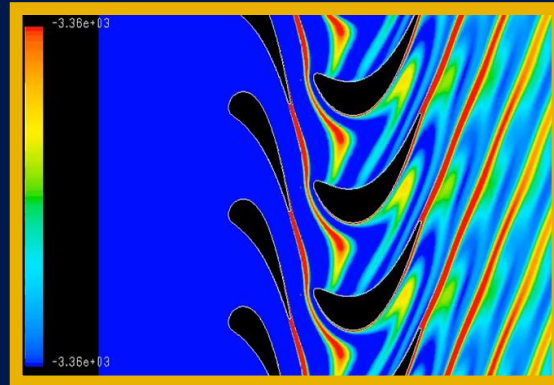
CFD study on turbomachines

Flow field study in Internal combustion engines

Internal combustion engines simulation

ME4: Partners

Universities & Research Centres

Companies & Organisations