

PROFESSIONAL OPPORTUNITIES

Profile: Energy Engineer

Functions: The Masters Degree in Energy Engineering prepares students for the industrial Engineering profession with expertise in planning and managing energy systems powered by conventional fuel, by renewable sources and nuclear energy.

Competences: The typical professional outlets for graduates of the Masters Degree in Energy Engineering are those of innovation, development, production, advanced designing, planning, programming and management of complex energy systems.

The associated skills are relevant to:

- highly complex planning and development activities, where multidisciplinary technical skills involving economic-organizational and management aspects and issues are required;
- project and development activities in the field of the innovation of energy technologies and the necessary experimentation;
- activities linked with programming, promoting, development and utilization of the energy market.

Professional Outcomes: The professional outcomes opportunities foreseen are in the energy supply sector and production of mechanical, thermal and electric energy, both from conventional energy sources and from renewable and nuclear sources; in the analysis of safety and environmental impact; in the dismantling of nuclear installations and the disposing of radioactive waste, in the creation of mechanical energy production systems, thermal and electric, for industrial and civil use, wherever a professional is required

to take charge of energy and environmental planning (energy manager), and in the research centres in the energy sector.

The graduate of the Masters Degree in Energy Engineering will be capable of working both in Italy and abroad as a freelance professional, in manufacturing or services companies, in public administrations and in big companies, along the lines of the professions described previously.

Students will also be able to continue their studies through 2nd level Professional Masters and research PhDs in the energy sector. Students who have obtained a sufficient number of credits in the scientific disciplinary sectors required by law will be able to teach in secondary schools.