

ENERGY SYSTEMS ENGINEER

DESCRIPTION

Energy systems engineers supervise the energy conversion and distribution processes. They analyse the energy supply and consumption efficiency developing new ways to improve the existing processes, taking into account both the technical and the financial aspects. They also study the environmental impact of energy usage and combine the production of renewable energy in the current power systems

REGULATORY ASPECT

To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the Regulated Professions Database of the Commission. Regulated Professions Database:

http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en



TECHNICAL SKILLS

ESSENTIALS

- ✓ adapt energy distribution schedules
- ✓ adapt energy distribution schedules
- ✓ advise on heating systems energy efficiency

READ MORE +

OPTIONALS

- ✓ analyse energy consumption
- ✓ assess financial viability
- ✓ conduct engineering site audits

READ MORE +

KNOWLEDGE

ESSENTIALS

- ✓ electrical power safety regulations
- ✓ electricity consumption
- ✓ energy

READ MORE +

OPTIONALS

- ✓ fuel distribution systems
- ✓ heat transfer processes
- heating, ventilation, air conditioning and refrigeration parts

READ MORE +

SOFT SKILLS



COMMUNICATION

30%



WORK ETHIC

50%



CREATIVE THINKING

50%



TEAMWORK

50%



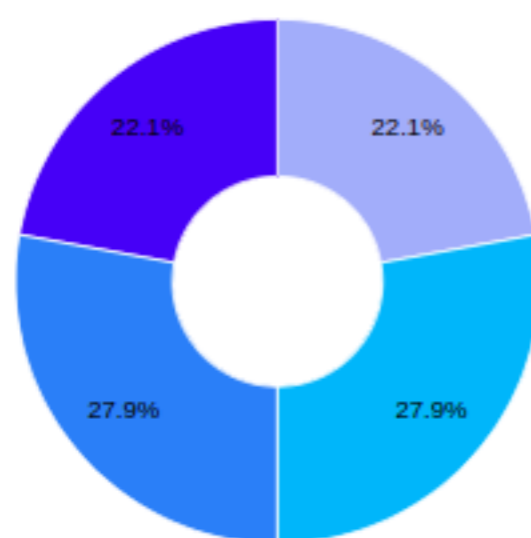
TIME MANAGEMENT

50%



PROBLEM SOLVING

65%



- Social and linguistic skills
- Digital Skills
- Communication skills
- Organisation/Management skills

ALTERNATIVE LABEL

- ✓ energy systems engineering specialist
- ✓ energy systems engineering consultant
- ✓ energy conservation systems engineer
- ✓ energy conversion systems engineer
- ✓ energy systems engineering adviser
- ✓ energy systems technology engineer
- ✓ energy systems technology engineering consultant
- ✓ energy systems engineering expert
- ✓ energy distribution systems engineer
- ✓ distribution system engineer
- ✓ energy systems technology engineering specialist
- ✓ energy conservation engineer
- ✓ environmental research engineer
- ✓ energy production systems engineer
- ✓ distribution project engineer
- ✓ energy transmission systems engineer
- ✓ energy systems technology engineering adviser
- ✓ energy system engineer
- ✓ energy systems technology engineering expert
- ✓ distribution engineer
- ✓ energy storage systems engineer
- ✓ power systems engineer

LEARNINGS



UTBM – Energy Engineer



HOU – Electric Engineer – MEAD Patras University



HOU – Electric Engineer – Peloponese University



Bachelor of Energy Engineering



Master of Energy and Nuclear Engineering