

Appliances burning gaseous fuels (GAR) (Regulation (EU) 2016/426 & Directive 2009/142/EC)

Please consult the Call for Expression for full information on the specific tasks, general specifications and the application. Specific requirements for this sector include:

Qualifications

- Master degree (or equivalent) in an adequate area of engineering (e.g. mechanical engineering) at university level (academic or applied sciences) and 8 years of proven relevant professional experience,
or
- Bachelor degree (or equivalent) in an adequate area of engineering and 10 years of proven relevant professional experience,
or
- An outstanding proven relevant professional experience of at least 15 years

Expertise

- A proven track record of working with harmonised and international standards in the field of gas appliances and 'fittings'
- Knowledge of the area of legislation covered by Regulation (EU) 2016/426 and Directive 2009/142/EC as well as guidance documents published on the Commission's Gas Appliances website
- Experience in various gas appliances designs and their 'fittings' (safety, regulating and controlling devices and subassemblies thereof) as well as other components and parts of appliances as well as their interfaces with the installation environment (gas, water and electrical supply; evacuation of combustion products; matching of heating bodies and forced draught gas burners, etc.)
- Knowledge of the types of gas and their supply pressures as well as their impact on the safety and performance of gas appliances including sufficient knowledge of health and safety impacts of exposure to substances harmful to health (e.g. in combustion products, in particular risks due to CO, and toxic components and impurities in gaseous fuels)
- Expertise in manufacturing technologies and test methods

Candidates should have preferably a good understanding of the following topics:

- Safety engineering and risk assessment techniques
- Mechanical engineering
- Building engineering and construction (Aspects related to interaction of gas appliances and buildings (ventilation, evacuation of combustion products, etc.))
- Electrical engineering
- Materials technology (Appropriateness of the choice of materials as far as the mechanical, chemical and thermal conditions of their use is concerned, impacts on food and water for human consumption)
- Pressurised equipment (Regarding risks due to pressure not covered by the Pressure Equipment Directive)
- Electronics
- Electromagnetic compatibility
- Wireless technologies
- Programmable control systems and functional safety
- Explosion prevention
- Ergonomic/accessibility

- Emission of and exposure to hazardous emissions (substances, radiation) (Impacts of exposure to combustion products, gaseous fuels, quality of food and water for human consumption)
- Acoustics and vibration (Mainly regarding noise level during operation)
- Measurement and testing