

Heat-Pump Engineer

What is it?

A heat-pump engineer is a skilled professional who specialises in the installation, maintenance, and repair of heat pump systems. Heat pumps are energy-efficient devices that transfer heat from one place to another, providing heating and cooling solutions for homes and businesses. With the growing focus on renewable energy and reducing carbon emissions.

Qualifications/Experience Required:

To become a heat-pump engineer in the UK, you typically need a background in plumbing, heating, or refrigeration engineering. Relevant qualifications include NVQs, City & Guilds certifications, or apprenticeships in plumbing and heating or renewable energy technologies. Experience with electrical systems and refrigerants is also beneficial.

What the Work Involves:

Installing heat pump systems in residential, commercial, or industrial settings, ensuring compliance with safety and industry standards. Performing regular maintenance checks on heat pump systems to ensure they operate efficiently and reliably. Diagnosing and repairing faults in heat pump systems, including electrical components and refrigerants. Advising clients on the best heat pump solutions for their needs, including air-source, ground-source, and hybrid systems. Keeping up to date with advancements in renewable energy systems.

Future Prospects – Labour Market Information:

The demand for heat-pump engineers is increasing due to the UK's commitment to reducing carbon emissions and promoting renewable energy. As more homes and businesses seek to replace traditional heating systems with heat pumps, opportunities in this field are expected to grow. Experienced heat-pump engineers can progress to senior roles, such as project manager or renewable energy consultant.

Average annual Salary - £24,000 - £46,000

Typical weekly hours – 35 to 43

Type of person who may be suited to this job:

This job may be suited to individuals who have strong technical and problem-solving skills, enjoy working with their hands, and have a keen interest in renewable energy technologies. Heat-pump engineers need to be detail-oriented, safety-conscious.

Money/Wage Guide:

Entry-level heat-pump engineers can expect to earn between £22,000 and £30,000 per year. With experience and certification, salaries can rise to £35,000 to £45,000. Senior heat-pump engineers, particularly those with specialised skills or working on large-scale projects, may earn £50,000 or more annually.

Related Opportunities:

- Plumbing and Heating Engineer
- Renewable Energy Technician
- Refrigeration Engineer
- Energy Efficiency Consultant

Further Information:

Microgeneration Certification Scheme (MCS)

<https://mcscertified.com/>

Chartered Institute of Plumbing and Heating Engineering (CIPHE)

<https://www.ciphe.org.uk/>