JOB SPOTLIGHT

Power Systems Engineer

INDUSTRY GROWTH - STRONG

DEVELOP • INSTALL • MAINTAIN

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The Australian Power Institute

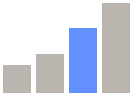
Power Systems Engineer

Keep the power running

Power Systems Engineers specialise in creating efficient power generation, transmission, and distribution networks. They are responsible for developing and installing technology integration and carrying out maintenance schedules. They are also in charge of monitoring and diagnosing issues, then fixing them to prevent downtime or reduced capacity.

If you have a knack for solving problems and love to work with your hands, this job could be perfect for you.

Growth



Strong

Salary

Above Average

Field Size

Medium

Hours

Average

Interest Area

Technology

Cluster

Maker

About you

Detail-oriented
Great problem-solver
Hands-on worker
Good communicator
Works well in teams
Organised & adaptable
Safety-minded
Excellent maths skills

Common tasks

- Design power systems & networks
- Monitor systems for issues
- Install, test & maintain equipment
- Upgrade existing systems & networks
- Prepare drawings & plans
- Ensure compliance with standards
- Optimise systems & processes
- Collaborate with other power workers

About the role

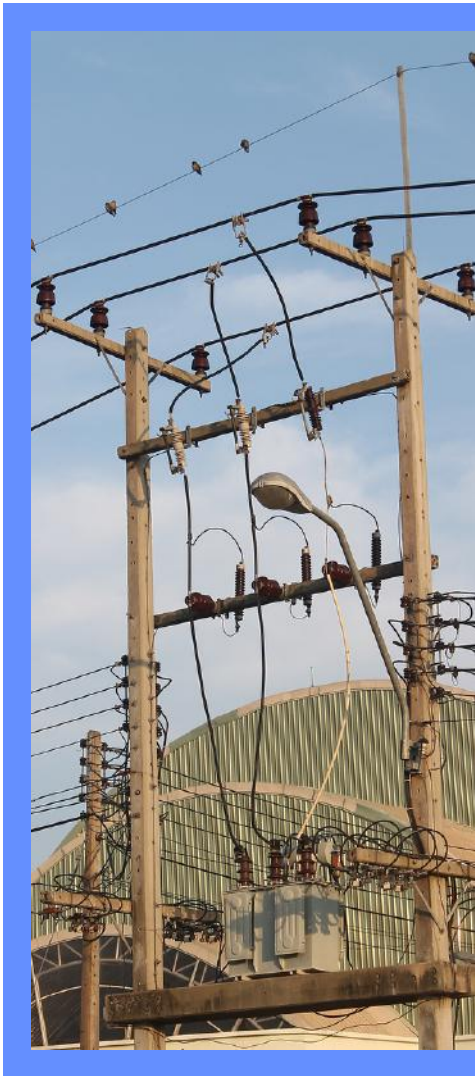
As a Power Systems Engineer, your work will be split across both time in the office and site visits. While there is some physical work involved, you'll also be expected to do desk work and communicate with clients, customers, and other power workers.

You can expect to earn an above average salary throughout your career.

Most Power Systems Engineers work full-time, usually during normal business hours. But emergency maintenance may require you to work nights, weekends, or even holidays.

Power Systems Engineers are typically found in these industries:

- Electricity, Gas, Water & Waste
- Professional, Scientific & Technical Services
- Manufacturing



Things you can do now

1. Focus on English, Maths, and Sciences at high school
2. Find work experience or volunteer in a relevant industry
3. Build skills through short courses and hands-on work
4. Research qualifications and requirements
5. Talk to a Power Systems Engineer to see what their work is like

Future study ideas

You will typically need a Bachelor's degree in Engineering to work as a Power Systems Engineer. Internships and practical work experience are a common part of your education, and are a great way to gain experience and make connections.

There are usually also other licenses and qualifications you must obtain as well, depending on regulations in your state or country, and whether or not you'd like to advance into more senior roles.

What next?

If you're interested in engineering, trades, or power, there are lots of other job areas you might like to consider as well, such as:

- Network Admin
- Renewables
- Maintenance
- Manufacturing
- Telecomms
- Utilities
- Civil Eng.
- Architecture

Focus on science courses at school, especially physics and engineering. Along with maths, they are often prerequisites to many engineering courses.

Find work experience or internship opportunities to gain exposure to the industry.

> Being part of the energy transition, dealing with fast-paced changes, and solving world-class problems while contributing positively to our planet is incredibly fulfilling.

NINA WANG
POWER SYSTEM ENGINEER

Find out more about Power Careers

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