

JOB SPOTLIGHT

Systems Planning Engineer

INDUSTRY GROWTH -
STRONG



ANALYSE • DEVELOP • PREPARE

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API The Australian
Power Institute

Systems Planning Engineer

Future-proof power systems

Systems Planning Engineers are responsible for forecasting future energy needs and planning the expansion and upgrades of power systems to meet those needs. They share their expertise and knowledge with other engineers to evaluate different options and ensure technical requirements are balanced with broader societal needs.

If you're a great collaborator and meticulous planner, and want to work on long-term projects that are critical for the future, this career could be right for you.

Growth



Strong

Salary



Above Average

Field Size



Small

Hours



Average

Interest Area



Technology

Cluster



Informer



About you

Excellent communicator
Organised & efficient
Committed to learning
Great problem-solver
Thorough & analytical
Works well in teams
Strong leadership skills
Good technical skills

Common tasks

- Draw up preliminary plans
- Conduct feasibility & risk studies
- Simulate & model various scenarios
- Provide cost & timeline estimates
- Prepare technical documents
- Report findings to stakeholders
- Follow strict policies & regulations
- Lead projects & other engineers

About the role

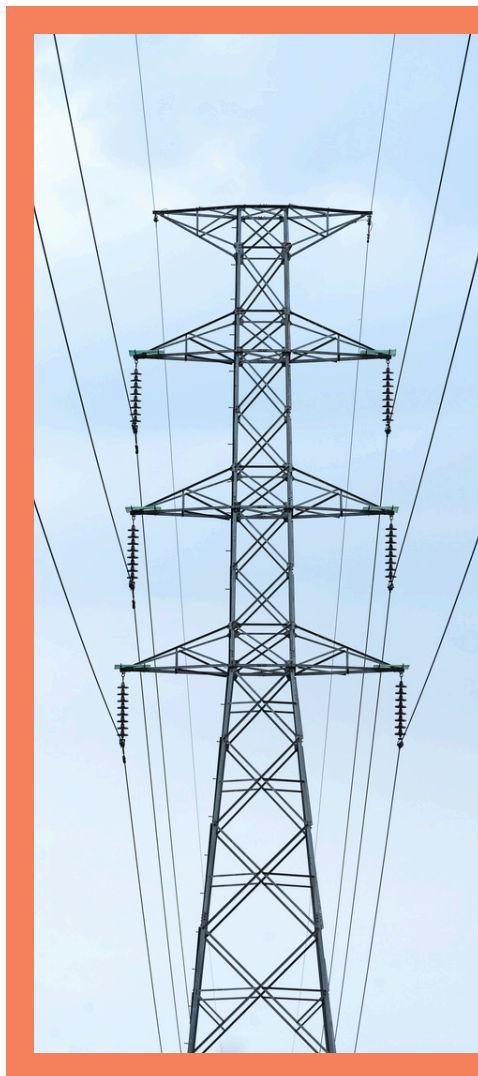
Most of your work as a Systems Planning Engineer will be done in an office environment. Occasionally, you might need to travel to site to conduct studies or meet with stakeholders.

Systems Planning Engineers usually work full-time during standard business hours. In some cases, you might need to work extra hours to meet important project deadlines.

Most Systems Planning Engineers can expect to earn an above-average salary throughout their career.

Systems Planning Engineers are typically found in these industries:

- Professional, Scientific & Technical Services
- Electricity, Gas, Water & Waste
- Information Media & Telecommunications



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 Systems Planning Engineer to see what their work is like

Future study ideas

You will typically need a Bachelor's degree in Electrical Engineering or a related field to work as a Systems Planning Engineer. Postgraduate qualifications are also highly regarded by employers, and you'll be expected to engage in continuous learning throughout your career.

Most professionals start out in junior roles as part of a larger team of engineers. Once you have lots of experience, you can move into senior leadership roles as a Systems Planning Engineer.



What next?

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

- Government
- Telecomms
- Intelligence
- Architecture
- Cyber Security
- Manufacturing
- Renewables
- Geospatial

Focus on maths and physics at school - these subjects will be crucial for your future study and career.

Learn a programming language such as Python or MATLAB, which are often used in systems analysis and modelling.

I was drawn to the power industry by the interesting purpose-driven work, complex challenges, and diverse range of opportunities.

SALLY BUSCH
ASSET STRATEGY AND PERFORMANCE LEAD



Find out more about Power Careers

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