

WIRED IN

Issue 01, 2026



UNSW ELSOC

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Welcome to Wired In, ELSOC's new industry insight series, breaking down what Electrical Engineering & Telecommunications (EET) actually looks like in the real world.

Today we present: What is EET?

From power to telecommunications, microelectronics, control, and embedded systems, EET is broader (and more exciting) than you might think.

Stay tuned. Get wired in.

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Where can your degree take you?

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Issue 1

WHAT IS EET?

Electrical Engineering & Telecommunications powers the modern world: from electricity grids and satellites to medical devices, data centres and autonomous systems. It's one of the most diverse and future-proof engineering fields.

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MAJOR EET SUBFIELDS

Key areas in EET include:

- 1 Power & Energy
- 2 Electronics & Embedded Systems
- 3 Signals & Intelligent Systems
- 4 Telecommunications
- 5 Control & Robotics
- 6 And many alternate pathways

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Issue 1

POWER AND ENERGY

Focuses on **generation, transmission** and use of electricity. Includes **renewable energy, power grids, EV infrastructure** and **battery storage**. Critical for Australia's energy transition and infrastructure future.

Employers include:

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TELECOMMUNICATIONS

Builds the networks that move **data, mobile systems, WiFi, satellites** and **fibro**. Key areas include **wireless communications, network systems** and **space-based connectivity**.

Employers include: **+5**
(NBA, Cisco, Telstra, AECOM Consulting)

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AN ELSOC INDUSTRY SERIES

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Telecommunications



Electronics & Embedded
Systems



Control & Robotics



Signals & Intelligent
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And many alternate
pathways!



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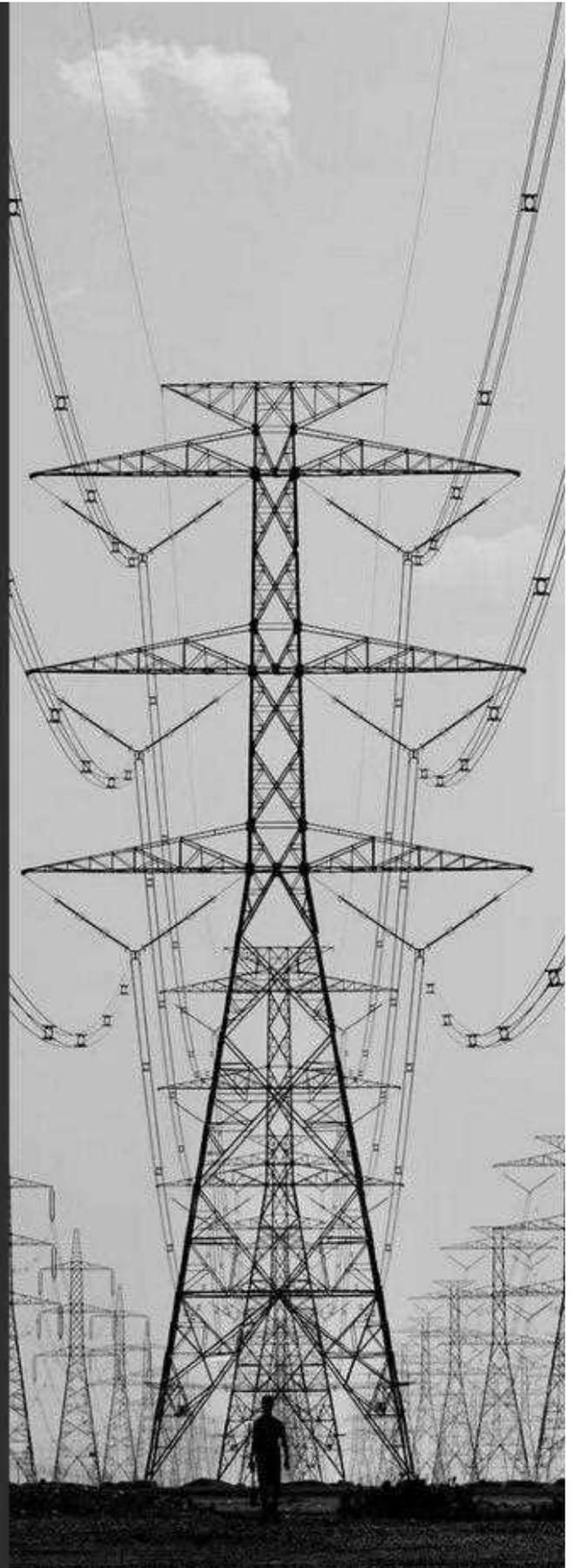
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Employers include:

Transgrid, Ausgrid,
Aurecon (Consulting)



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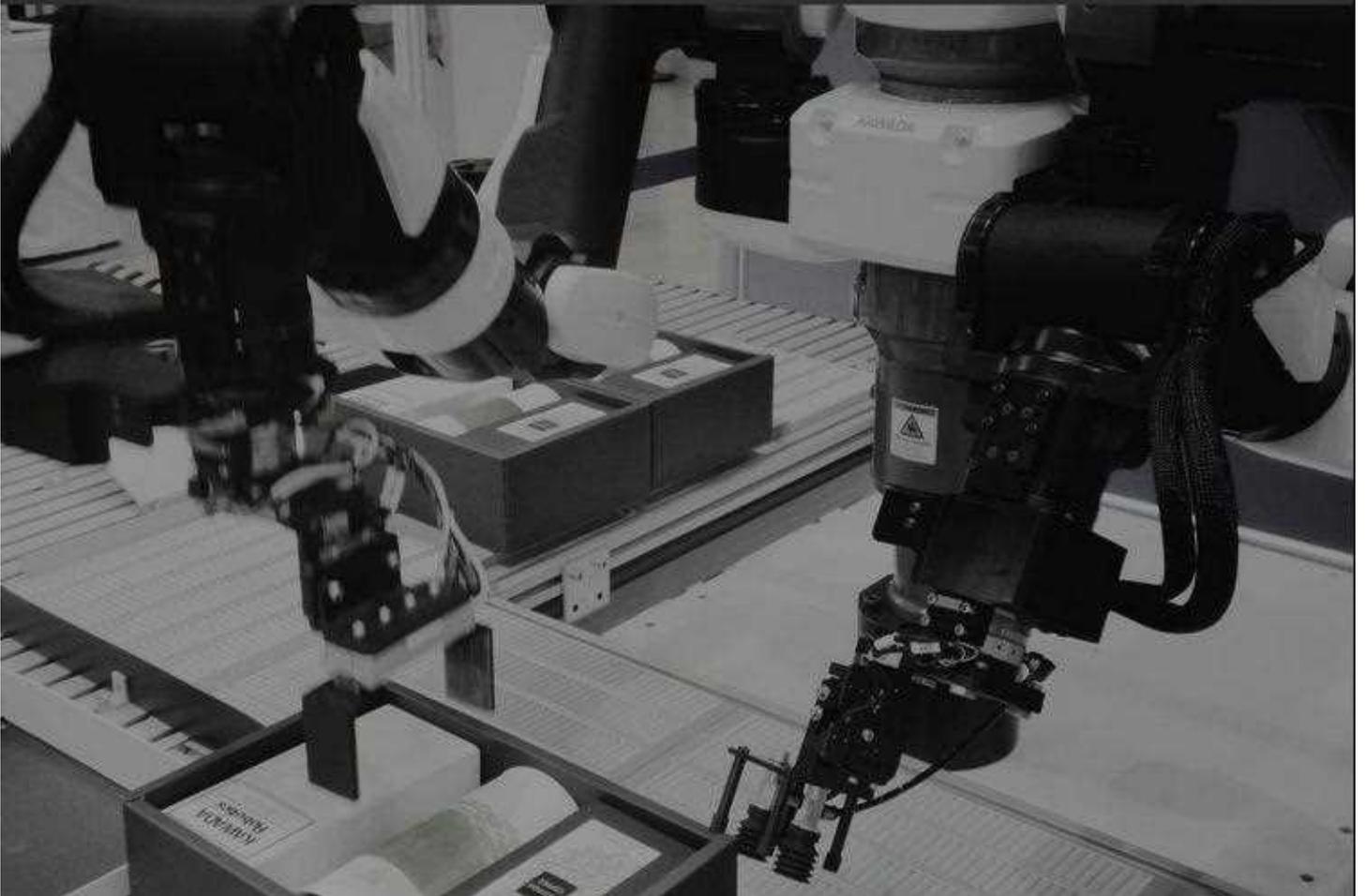
ELECTRONICS AND EMBEDDED SYSTEMS

Designs the hardware inside devices, from medical tech and drones to consumer electronics and IoT systems. Combines circuit design, microcontrollers and low-level software.

Employers include:
NVIDIA, Altium, Samsung

CONTROL & ROBOTICS

Creates systems that **sense, decide** and **act**. Used in robotics, autonomous vehicles, manufacturing automation and smart infrastructure.



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SIGNALS & INTELLIGENT SYSTEMS

Works with **audio**,
images, **data** and
sensors. Used in radar,
medical imaging,
communications,
computer vision and
hardware that supports
AI systems.



ALTERNATIVE PATHWAYS

Electrical engineers are highly sought after beyond traditional roles. EET skills are valued in trading firms (FPGA & low-latency systems), consulting, finance, startups, product roles and project management.

