Engineering Institute of Technology.

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STEM as Career Pathways in the Age of AI

Building Future-Ready Skills for an Intelligent World

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Dr. Sangita Bista

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We are dedicated to ensuring that you receive a world-class education and gain skills that you can immediately implement in the workforce.

Engineering Specialists

EIT is one of the only institutes in the world specializing in Engineering. We deliver professional certificates, diplomas, advanced diplomas, undergraduate and graduate certificates, bachelor's and master's degrees, and a Doctorate of Engineering.

Industry Oriented Programs

Our programs are designed by industry experts, ensuring you graduate with cutting-edge skills that are valued by employers. Our program content remains current with rapidly changing technology and industry developments.

World-Class Australia Accredited Education

Our vocational programs and higher education degrees are registered and accredited by the Australian Government. We have programs that are also recognized under three international engineering accords.

Industry Experienced Lecturers

Our lecturers are highly experienced engineers and subject specialists with applied knowledge. The technologies employed by EIT, both online and on-campus, enable us to source our lecturers from a large, global pool of expertise.

Unique Delivery Model

We deliver our programs via a unique delivery methodology that makes use of live and interactive webinars, an international pool of expert lecturers, dedicated learning support officers, and state-of-the-art such as hands-on workshops, remote laboratories, and simulation software.

Discover Why Students Choose EIT

#1 Australian Provider for Student's Overall Satisfaction in Postgraduate Engineering Programs*

#1 Australian Provider for Graduates in full time employment for Undergraduate Engineering Programs*

Top 3 Australian Provider for Quality of Educational Experience for Undergraduate Engineering Programs*

Top 3 Australian Provider for Student Support for Postgraduate Engineering Programs*

**2021/2022/2023 aggregated data from the Student Experience Survey and Graduate Outcomes Survey– qilt.edu.au*

Introduction – Presenter

Dr. Sangita Bista

Dr. Sangita has over a decade of experience in the energy sector, specializing in energy management, distributed energy resources, and electrical engineering. She leads cross-functional collaboration to deliver strategic, customer-focused energy solutions.

With a strong academic foundation in electrical engineering and energy management, combined with practical experience in sustainability and climate change, Dr. Sangita is passionate about developing innovative and environmentally sustainable energy strategies that create lasting impact.

Agenda

1.	What is STEM
2.	Why STEM Matters in the Age of AI
3.	Human Skills AI Cannot Replace
4.	High-Demand STEM Career Pathways
5.	STEM = Transferable & Future-Proof Skills
6.	Real-World Impact of STEM
7.	Pathways into STEM
8.	Key Takeaways

The World Has Changed

AI is reshaping industries:

- Healthcare
- Energy & Climate
- Finance
- Infrastructure
- Education
- Manufacturing

AI is not replacing the future. It is redefining it.

What is STEM?

STEM =

🔬 **Science** – Understanding how the world works

💻 **Technology** – Applying tools to solve problems

⚙️ **Engineering** – Designing and building solutions

📊 **Mathematics** – The language of data and logic

STEM builds AI — and governs it.

STEM is not just coding — it includes research, design, systems thinking, ethics, and analytics.

Why STEM Matters in the Age of AI

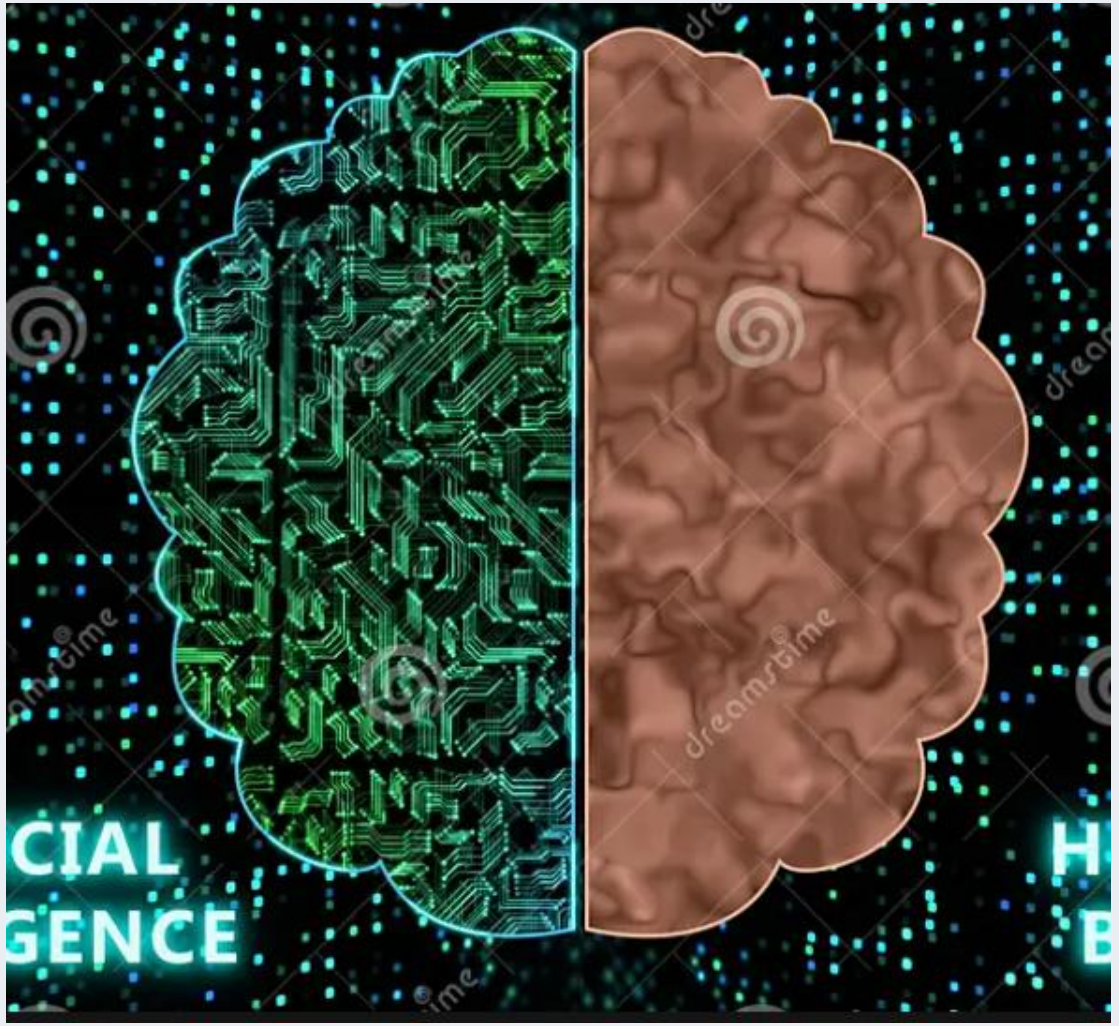
STEM enables you to:

- Design AI systems
- Improve AI models
- Ensure AI safety & ethics
- Solve global challenges
- Adapt as technology evolves

Human Skills AI Cannot Replace

- Critical Thinking
- Complex Problem Solving
- Systems Thinking
- Ethical Reasoning
- Creativity & Innovation

AI + Human Intelligence = Maximum Impact



High-Demand STEM Career Pathways

- -AI / Machine Learning Engineer
- Data Scientist
- Robotics Engineer
- Cybersecurity Specialist
- Renewable Energy Engineer
- Biomedical Engineer
- Software Developer
- Climate Technology Analyst

STEM = Transferable & Future-Proof Skills

Key is adaptability. AI will evolve — STEM thinkers evolve with it.

STEM skills allow movement across industries:

Energy → Health → AI → Climate → Infrastructure

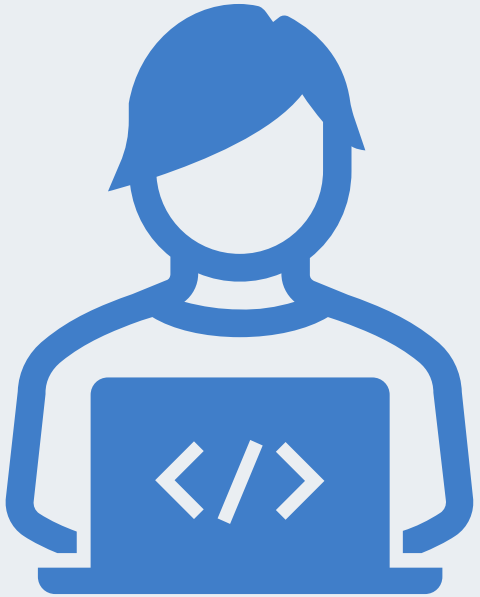
Why?

Because STEM teaches **how to think**, not just what to know.

Real-World Impact of STEM

- Fighting climate change
- Designing smart energy systems
- Improving healthcare diagnostics
- Building sustainable cities
- Securing digital systems

STEM needs to be connected to purpose.
Young people want meaningful careers.



Pathways into STEM

- University degrees
- Technical & vocational training
- Apprenticeships
- Online certifications
- Coding bootcamps
- Industry internships

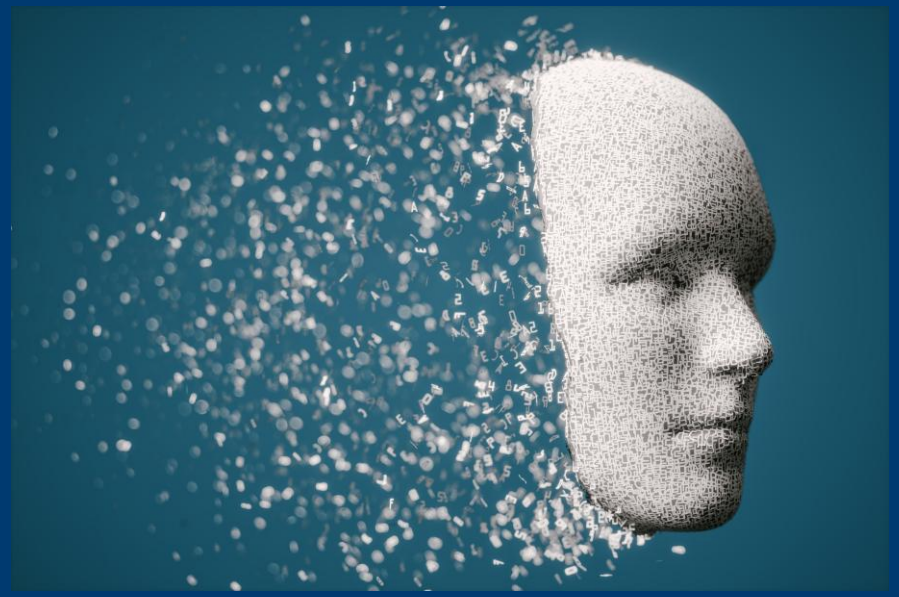
Tip:

Start early. Stay curious. Build projects. Key is exploration — no single pathway.

Key Takeaways

AI is transforming industries

- STEM builds and governs AI
- STEM careers are adaptable & future-ready
- Human creativity + AI = powerful combination
- The future belongs to problem solvers

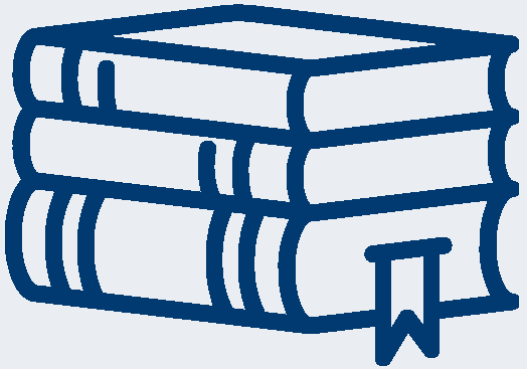


Thank You!

This multi-disciplinary webinar/topic relates to our schools of:

- Mechanical Engineering
- Electrical Engineering
- Industrial Automation, Instrumentation and Process Control
- Civil Engineering

Please view our course schedule: https://www.eit.edu.au/schedule/



Upcoming Courses

We have a range of upcoming courses:

Courses	Start Date
Professional Certificate of Competency in Industrial Data Communications	15 April 2026
Professional Certificate of Competency in Programmable Logic Controllers (PLCs) & SCADA Systems	15 April 2026
Professional Certificate of Competency in Fundamentals of Electric Vehicles	15 April 2026
52888WA Advanced Diploma of Applied Electrical Engineering (Power Industry)	5 May 2026
52886WA Advanced Diploma of Industrial Automation Engineering	5 May 2026
BSB50420 Diploma of Leadership and Management	5 May 2026
52910WA Graduate Certificate in Hydrogen Engineering and Management	5 May 2026
52914WA Graduate Certificate in Mechatronics	5 May 2026
Online - Master of Engineering (Industrial Automation)	29 June 2026
Online - Master of Engineering (Electrical Systems)	29 June 2026
Online - Master of Engineering (Mechanical)	29 June 2026
Online - Master of Engineering (Civil: Structural)	29 June 2026

Find more courses here: https://www.eit.edu.au/schedule/

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Closes: 31 March 2026 (5pm AWST)

How to Enter

- Capture an engineering-related photo
- Post on Instagram, LinkedIn, Facebook or TikTok
- Use **#EITPhotoChallenge2026** and tag EIT

Prizes

- 1st: US$1,000
- 2nd: US$750
- 3rd: US$500
- 5 × US$100 prizes

Global competition | Winners selected by EIT | Terms and Conditions apply.
Learn more: https://www.eit.edu.au/eit-photo-challenge/

Q&A

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Courses
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