STEM in practice

Scientists explore and describe how things work

Inquiry   Research   Experimentation

Technologists create and maintain the tools, systems, and structures that make things work

Tools   Materials   Coding   Techniques   Computer Aided Design

Engineers bring everything together to make and improve things

Multidisciplinary   Design Process   Communication   Sustainability
Project & Risk Management   Digital Simulation   Cost Effectiveness

Mathematicians create the reasoning and language to understand and explain how things work

Logic   Algorithms   Probability   Statistics   Modelling

Each discipline contributes their unique skills[1] to achieve purposeful, safe, and timely outcomes

[1] All disciplines share underlying skills such as design, and problem solving, but apply them in different ways.