UQ BE(Hons)/ME Industry Placement Project Scope (Software)

Commencement:	Semester 1, Year		
Project Start Date:	**xx/yy/year**	Project End Date:	**xx/yy/year**
Company Name:	XYZ Engineering	Address:	Street address

ESSENTIAL INFORMATION			
Project Title:	Optimisation of equipment performance.		
Is there a $17,000 bursary available?	Yes		
Student on-site Supervising Engineer name:		Student on-site Supervising Engineer phone:	
Student on-site Supervising Engineer title:	Engineering Manager	Student on-site Supervising Engineer email:	
Preferred engineering discipline:	Mechanical	Location of Project placement:	Brisbane
Is the project subject to IP/confidentiality constraints? e.g. is an embargo required on the Student's final report to limit access by a third party?	No	If yes, what are your requirements e.g. NDA and embargo for 6 months	Nil
If an internal document review is required prior to student submission, please outline how this will be managed	No		

ORGANISATIONAL BACKGROUND (MAX. 100 WORDS)
XYZ Engineering is a leading manufacturing company specializing in mechanical equipment for various industries. We have a state-of-the-art facility equipped with advanced machinery and employ a team of highly skilled engineers and technicians. Our products are known for their quality and reliability, and we have a strong customer base both domestically and internationally. We prioritize safety and sustainability in our manufacturing processes and strive to stay at the forefront of technological advancements in the industry.
PROJECT MOTIVATION/BUSINESS DRIVER (MAX. 150 WORDS)
XYZ Engineering is constantly seeking opportunities for innovation and improvement to meet the evolving needs of our customers. We are particularly interested in optimizing the design and performance of our latest mechanical equipment model. By conducting a comprehensive analysis of various design parameters, we aim to enhance the efficiency, durability, and overall functionality of the equipment. This project will allow us to gain valuable insights into the impact of different factors on the equipment's performance, enabling us to make informed design modifications for better customer satisfaction and market competitiveness.

PROJECT AIM (MAX. 100 WORDS)
The aim of this project is to investigate the influence of key design parameters on the performance and functionality of our latest mechanical equipment model, with a focus on enhancing efficiency and durability.
PROJECT SCOPE AND POTENTIAL METHODOLOGY (MAX. 200 WORDS)
Conduct a thorough literature review to understand the existing knowledge and best practices related to similar mechanical equipment designs. Analyze the performance data and conduct experimental tests on a scaled-down prototype of the equipment to evaluate the effects of different design parameters. Utilize computer-aided design (CAD) software and simulation tools to model and simulate the equipment's behavior under varying operating conditions. Based on the findings, propose design modifications and improvements to optimize the equipment's performance. Generate a detailed report outlining the methodology, experimental results, design recommendations, and potential implementation considerations.
REQUIRED DELIVERABLES (MAX. 100 WORDS)
Comprehensive literature review, experimental test reports, CAD models and simulation results, design modification recommendations, detailed project report documenting methodology, findings, and implementation considerations.
KEY STAKEHOLDERS (MAX. 100 WORDS)
XYZ Engineering (Project Sponsor), Project Supervisor/Mentor, Mechanical Engineering Department, XYZ Engineering's Design and R&D Team
OTHER COMMENTS INCLUDING HEALTH CONSIDERATIONS (E.G. NOT SUITED TO ASTHMA SUFFERS)
It is important to adhere to all safety protocols and guidelines throughout the project, ensuring the well-being of yourself and others involved. Any potential health considerations, such as allergies or sensitivities, should be communicated to the project supervisor for appropriate accommodations and precautions.