

Yi Hao Kwah

"Adapting technical knowledge for reliable results"

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Dear Mr Tommy,

My name is Yi Hao, and I am applying for the consultant position at Gexcon. I am in the final stages of completing my PhD at the Turbulent Combustion group of the Norwegian University of Science and Technology (NTNU) with an available start date of July 2023. In the following paragraphs, I would like to share with you traits I have honed during this PhD journey which I hope will be useful for the role as a Gexcon Consultant.

I collaborated with SAFRAN, a major French aircraft engine company, for my research project. The project focused on the design and operation of laboratory-scale combustors and it was exciting to embark on a myriad of work: the computer-aided design (CAD), the procurement and assembly of parts, and the eventual operations. I have benefited immensely from the guidance shared by SAFRAN engineers on practical combustion design considerations. Likewise, I shared frequent updates on data insights gleaned from the processing of laboratory acquired signals. These interactions have made me appreciate the importance of effective work management and communication in managing both the client's needs and the academic expectations of my institution. I strongly identify with the company's values of trustworthy, sharing, and agile and if offered the opportunity to be part of the Gexcon team, I will leverage on my expertise in combustion to deliver flexible and trusted solutions to clients. In addition, I have spent considerable time in various cities: Singapore, Paris, and Trondheim and am fluent in English, Mandarin Chinese, and French. With exposures to different working cultures and mindsets, I hope to bring new dynamics and perspectives to the already diverse Gexcon workplace in addressing the needs of customers regardless of their background. I am also learning Norwegian now, and hope this will make me better connect to colleagues and clients within the Scandinavian region.

During my research, I have embarked on other projects which I do not have prior knowledge in. One is an in-house design of a spark ignition system allowing precise electrical discharge in experiments. A second project involves constructing an electronic box to allow independent control of optical diagnostics equipment which better tailors to our research needs and leads to cost savings of more than 50,000 norwegian kroner. Despite the many unfamiliar topics involved, I have enjoyed acquiring skills that is out of my comfort zone, and toughened my mind in finding innovative and cost-effective solutions to existing problems. I understand that I may lack the relevant modelling background but am eager to proactively learn and draw upon the accumulated experiences of fellow colleagues, to effectively utilise the various risk and modelling tools by Gexcon. As a fresh graduate, I look forward to forging a career in the energy industry and Gexcon is a company which I aspire to join as it offers the right environment to develop myself holistically through project management, client engagement, and technical development. If given the opportunity, I envisage myself making contributions in developing better tools and processes towards a better and safer energy industry.

Thank you for your consideration in my application. If my profile interests you, I look forward to hearing from you soon.

Yours sincerely,



Yi Hao, Kwah
Trondheim, 29.04.2023