

PROFILE

Oskefer Consulting, headquartered in Singapore, is an engineering consultancy firm specializing in **incident investigation** (including failure analysis, forensic engineering investigation, and root cause analysis), **risk-based consulting** (such as risk-based design review, inspection, and condition assessment), and **expert witness** services.

Dr. Bo WANG joined Oskefer Consulting Pte Ltd as a principal consultant and practice lead in 2025. With over 12 years of experience in the development of chemical processes, catalysts and analytical methodologies. Dr. WANG greatly enhances the technical portfolio of the company.

Dr. WANG started his career as a scientist in Institute of Chemical and Engineering Sciences, A*STAR, where he has gained extensive experiences in chemical synthesis, catalysis, process development and analytical chemistry. As deepening his root in chemical engineering, he was actively transitioning to a programme manager, exposing himself to a wider spectrum of technical areas. In this role, he also developed diversified skillsets such as project management, conversation facilitation, stakeholder management, etc. In 2023, he obtained MBA degree from NUS, Singapore. Additionally, he has participated in various professional committees and consulting projects.

A bilingual Singaporean Chinese, Dr. Wang is fluent in both English and Chinese.

KEY STRENGTHS:

- Broad knowledge in science and technology across disciplines.
- Expert knowledge and hands-on experience in chemistry and chemical engineering.
- Strong project / portfolio management skills.
- Proficiency in desktop research, data analysis and technical writing.
- A self-starter and fast learner.

INDUSTRY EXPERIENCE:

- **Chemistry** (synthesis, analytical)
- **Chemical Engineering** (process, unit operation, catalysis, safety)
- **Sustainability** (biomass, hydrogen, ammonia, battery, waste)
- **Analytical** (XRD, XRF, IR, Raman, ICP, XPS, XAS, TPD/R/O, GC/LC, TGA, Microscopy, etc.)

WORK EXPERIENCE

Sep 2025 – Present

Oskefer Consulting

Principal Consultant & Practice Lead
Chemistry and Chemical Engineering

- Lead the Chemistry and Chemical Engineering practice in Oskefer, build technical capability and develop the relevant business.
- Investigate incidents related to fires, explosions and chemical incidents.
- Provide expert advice in relation to chemical process safety, chemical contamination, etc.
- Work together with other consultants in the team to investigate major and complex incidents which involves chemicals.

Nov 2022 – Present

A*STAR - Agency for Science, Technology and Research

Principal Scientist / Technical Director
PIPS - Pharma Innovation Programme
Singapore

- Manage >S\$ 20 million grant to advance the technologies for small molecule manufacturing in Singapore's pharma industry.
- Closely work with >300 Subject Matter Experts and researchers from both industry and academia to scope, execute, manage and deploy more than 30 projects, across diverse disciplines including

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chemistry, process development, modelling, artificial intelligence, sustainability, robotics and automation, etc. Provide timely feedback and conducted regular stage gate review for all projects from technical perspective.

- Periodically review the programme strategy and operation workflow. Conducted the strategic planning for the next phase of PIPS from 2025 to 2028. Ideated and implemented a new funding mechanism to enable more flexible and agile projects with high TRLs.

Nov 2009 – Nov 2022

A*STAR - Agency for Science, Technology and Research

Senior Scientist / Team Leader
ISCE² - Institute of Sustainability for Chemicals, Energy and Environment

- Managed multiple research projects worth more than S\$ 8 million in collaboration with Mitsubishi Chemical, focusing on catalyst development for more sustainable oxidation processes. Oversaw the patenting process for these catalysts, out of which two have been filed and one has been granted (three in total). One catalyst is being scaled up for commercialization.
- Led the catalyst characterization team to develop new analytical methodology to upgrade the capabilities to support a broad range of projects across the institute.
- Developed various chemical reaction processes and built multiple reactors (both batch and flow) coupled with online analysis capabilities.
- Extensive hands-on experience in troubleshooting and root-cause failure analysis of reactors and other associated unit operations and analytical instruments.

EDUCATION

Master of Business Administration (MBA)

National University of Singapore, Singapore 2023

Doctor of Philosophy (PhD) in Chemical and Biomolecular Engineering

Nanyang Technological University, Singapore 2009

Master of Science (MSc) in Quantitative Finance

National University of Singapore, Singapore 2017

Master of Philosophy (MPhil) in Chemical Engineering and Analytical Science

The University of Manchester, United Kingdom 2006

Bachelor of Engineering (BEng) in Chemical Engineering

Tsinghua University, China 2003

OTHER PROFESSIONAL EXPERIENCES

- Executive Committee Member / Treasurer of Singapore Catalysis Society, 2015-2022.
- Evaluation Panel Member of Startup SG Tech, Enterprise Singapore, 2021-2022.
- Consulting Project, “Landscaping of Industrial Carbon Emissions”, Wavemaker Impact, Jan-May 2022.
- Consulting Project, “Go-To-Market Strategy of New Omni-Channel and Webstore Platform.”, Jan-May 2022.
- Consulting Project, “Go-To-Market Strategy for GlucoRing”, Aug-Nov 2022.