

PROFILE

Oskefer Consulting, headquartered in Singapore, is an engineering consultancy firm specialising 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 Derek Gong co-founded Oskefer Consulting Pte Ltd in 2022 and took on the role of Managing Director. With over 18 years of experience in technology development, incident investigation, risk-based consulting and expert witness, Dr Gong brings extensive expertise to the company.

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Dr Gong began his career as a failure analysis consultant at TÜV SÜD before progressing to senior and principal engineer roles at Rolls-Royce, focusing on investigating aircraft engine failures. He later transitioned to the insurance industry as a loss adjuster and senior loss adjuster, primarily handling complex engineering losses in the power and energy sectors, as well as high-tech product recall claims. In 2022, Dr Gong co-founded Oskefer Consulting to deliver engineering consultancy services to insurance and legal professionals, OEMs, and operators of critical assets.

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

KEY STRENGTHS:

- Broad engineering knowledge across disciplines
- Expert knowledge and hands-on experiences in Materials Science and Engineering
- Expert knowledge in turbine and machinery
- Rich experiences in failure investigation, root cause analysis and risk assessment
- As an ex-loss adjuster, understands the differences in services required by insurance/legal professionals and that required by OEMs/operators.

INDUSTRY EXPERIENCE:

- **Conventional Power** (gas turbine, steam turbine, generator, transformer, power transmission)
- **Renewable Energy** (onshore & offshore wind, solar PV & concentrated solar power plant)
- **Aviation** (aircraft engine & body)
- **Oil & Gas** (refinery, petrochemical)
- **Machinery** (cranes, motors, pumps, compressors, chillers.)

PROFESSIONAL EXPERIENCE

July 2022 – Present

Oskefer Consulting

Managing Director

- Providing engineering consultancy services to insurance companies, law firms, OEMs, and end-users, etc.
- As Managing Director, responsible for Oskefer's business development and strategic operation.
- Lead investigations of major and complex incidents, with special interests in conventional power (gas turbine/steam turbines/combined cycles), renewable energy (wind turbine, solar PV, concentrated solar), aviation (aircraft engine & body), and oil & gas (downstream).

June 2021 – June 2022

Lloyd Warwick International

Senior Loss Adjuster

- Primarily handle major & complex insurance claims in energy (upstream & downstream) and power (conventional & renewable) sectors, on behalf of global reinsurance companies. Familiar with industrial gas turbine, conventional steam turbine, combined cycle power plant, wind turbine, photovoltaic system, concentrated solar power system, etc.
- Able to put complex engineering issues in a concise way to different stakeholders and to bring the potential dispute to an amicable end through principle-based negotiation

April 2020 – May 2021

Integra Technical Services

Loss Adjuster

- Primarily handle complex insurance claims in energy, power, and manufacturing industries. Have settled several claims in the magnitude of several to tens of million dollars.
- As a global focal point, assist colleagues in other offices in root cause analysis and technical assessment of complex engineering losses in energy & power sections, as well as high-tech (semiconductor, electronics) product recall claims.

June 2019 – March 2020

Envista Forensics

Technical Consultant

- Provide engineering consulting services to insurance companies, law firms, and OEMs, focusing on risk assessment, root cause analysis, service restoration, and subrogation, etc.
- Expert investigator for major engineering losses and disputes, having been engaged for cases in various industries, such as power, energy, aviation, marine and high-tech manufacturing industries, with claims up to multiple million dollars.

March 2014 – May 2019

Rolls Royce

Principal Engineer- Failure Investigation

- Within the newly created Central Technology Group, primarily responsible for the investigation of in-service aero & industrial gas turbine engine safety and reliability issues in APAC by leading cross-functional teams and working with customers, manufacturing facilities, suppliers, and regulatory bodies. As principal investigator, complete hundreds of investigations of gas turbine failures, including the Annex 13, RedTop, Safety Alert, and reliability investigations.
- Provide specialist consulting services to manufacturing facilities and supply chain in the APAC region regarding supplier quality control, root cause analysis and new capability development.
- Two secondments to the UK Design Services team:
 - 1) to investigate development engine failures.
 - 2) lead a cross-functional team of NDT, Computational Engineering, Design Services to digitize life cycle inspection and improve understanding of in-service condition of critical components.

July 2012 – February 2014

TÜV SÜD

Failure Analysis Consultant

- Provide engineering consultation and risk assessment service to various industrial sectors, such as oil & gas, aerospace, marine, chemical plant, power generation, manufacturing, construction, rail transport, medical device, and defence, etc.
- As principal investigator, handled more than 30 high profile cases, including break down of major MRT lines, warship gearbox failure, aircraft landing gear failure, medical devices failure, etc.

EDUCATION

Master of Business Administration (MBA)

Nanyang Technological University, Singapore 2020

Doctor of Philosophy (PhD) in Materials Science & Engineering

Nanyang Technological University, Singapore 2013

Master of Engineering (ME) & Bachelor of Engineering (BE) in Materials Science & Engineering

Southeast University, China 2009 & 2006

PROFESSIONAL AFFILIATIONS

- Chartered Engineer (**CEng**) of the Engineering Council, United Kingdom.
- Fellow of the Institute of Materials, Minerals and Mining (**FIMMM**), United Kingdom