



Oil and gas

Adding value to the oil and gas industry



SYSTEMS AND ENGINEERING TECHNOLOGY

“ At Frazer-Nash, our Systems Approach helps us respond to your challenges.

Our experts work with you to understand the whole range of financial, operational, organisational, people and other issues that surround your technical needs. And we use this understanding to deliver demonstrable business and technical value. ”

Frazer-Nash is a leading systems and engineering technology company. Our consultants are applying their expertise and know-how to develop, enhance and protect our clients' critical assets, systems and processes.

We're renowned for our expertise across the oil and gas, defence, aerospace, power, industry and transport sectors. We use advanced engineering analysis to improve safety, efficiency and performance. And we provide independent advice to minimise risks and reduce costs and liabilities.

Our clients know they'll get the very best in strategic planning, project management, design and technical support, which is why many of the world's leading private and public sector organisations use us to overcome some of their greatest challenges.

With experience across the development life cycle, from requirements definition and project delivery through to recycling and disposal, our specialists provide a comprehensive and tailored service. With access to the wide breadth of skills and expertise within the whole company, there's someone, somewhere who has the solution to even the most complex problem.

Our quality management system underpins our commitment to delivering the very best for our clients – by providing robust systems and procedures to manage the core aspects of our business.

Our clients

We understand the business context of the services we provide and deliver tailored solutions throughout the project life cycle.

Clients that benefit from our unique expertise and know-how include:

- National and international oil companies
- EPC contractors
- Upstream service and supporting companies
- Equipment manufacturers
- Supply chain organisations
- Classification societies
- Industry and government bodies
- Marine and protection and indemnity insurers
- Investors
- Regulators
- Ship designers and builders
- Ship owners and operators
- Law and arbitration firms
- Accident investigators

Our core capabilities

Independent technical analysis

We work at all stages of a project life cycle, and we know that our early involvement can maximise our clients' return on investment and give them confidence in their investment strategy.

We work with our clients to ensure their designs are appropriate to their needs. We can carry out third-party holistic assessments of whole field systems, looking at the performance efficiency of integrated constituent parts of the system. The costs associated with reworking an inappropriate design increase significantly as a project progresses, and by identifying and addressing design issues early, resolution costs can be reduced or eliminated.

We also provide independent technical advice to support dispute resolution and arbitration cases. Our Expert Witness services draw on a core team of highly regarded technical experts.

Engineering management services

At Frazer-Nash our teams work hard to understand our clients' businesses. Within the oil and gas sector, we can combine our engineering know-how and management insight to help them achieve their business objectives.

We provide a range of analytical, management and supporting techniques to help our clients to improve their decision-making process, understand their opportunities and help reduce cost and risk. We can also work with them to improve their organisational resilience through the practical application of management experience and project and programme management disciplines.

Operations assessment and support

In today's economic climate we know that maintaining the in-service life of offshore systems and infrastructure is critical to our clients' operations. Performance, reliability, safety and environmental responsibility are at the heart of what we do.

Our internationally recognised expertise in fatigue and fracture mechanics is being applied to help our customers extend their operations, overcome time-critical in-service events and assure the continued safety of their people and plant. These services are complemented by our teams of process, electrical and control, and safety and reliability engineers.

For long-term programmes, our teams can integrate seamlessly into our clients' organisations; whilst for urgent and ongoing operational issues, we can mobilise the right people and expertise at very short notice.

Design assessment support

Over the past three decades, we've designed and specified complex systems for organisations of all sizes. We've added value to their operations by delivering solutions for a wide range of complex challenges, and we've helped optimise plant, processes and system design. We've delivered turnkey commissions and supported some of the world's largest engineering projects.

We're renowned for our ability to break down complex problems into manageable and coherent elements, allowing the best design option for the required context to be chosen and developed. And we know that our early involvement in a programme life cycle can minimise cost and reduce risk.

Advanced engineering assessment

Frazer-Nash's systems approach considers the interaction of technical, management and human-related disciplines, and has helped assure and improve the safety, reliability and performance of all types of offshore equipment.

Our skills can be applied to any level of system complexity and at any stage in the engineering process, whether supporting concept development and evaluation programmes, system and technology integration, through-life maintainability, or end-of-life activities.

We're able to provide a single point of contact for all your assessment needs, giving you access to our comprehensive range of skills including: fluid dynamics, structural integrity, mechanical integrity, noise and vibration, materials science and electrical and control systems.

Late life management

Frazer-Nash employs some of the industry's most talented specialists. They know that late field life management is critical to the continued safe and profitable operation of oil and gas assets.

We work with our clients to help them make the right business decisions, and we add value by helping to drive down the costs associated with their late life operations. Our work is based on our understanding of the interaction between the technical, safety and supportability elements of existing systems, and how these impact on the safe and profitable operation of oil and gas assets.

Research, development and technology management

New ideas and the introduction of new products and innovations are the lifeblood of many organisations that operate in the oil and gas sector. We understand the risks and uncertainties associated with the development, implementation and operational exploitation of new technology, and the significant management and market acceptance challenges generated by the innovation process.

Our scientists, engineers and consultants can help clients capitalise on their new ideas by helping them negotiate the scientific, technical, organisational, financial and business activities generated by their ideas.

We've worked with some of the industry's most significant companies developing new ideas and approaches, and have experience of leading and supporting a number of joint industry programmes.

Adding value to your business

Why Frazer-Nash?

We listen, we evaluate, we respond and we deliver – always with integrity and without compromise. At Frazer-Nash, we provide support to improve and safeguard the development and operation of major oil and gas projects, assets and facilities.

We have a broad portfolio of systems and engineering capabilities, providing real engineering support to our clients across the oil and gas industry.

Our reputation is rooted in 80 years of independent engineering thinking. Everything we do is focused on providing robust, dependable advice and timely solutions that add real value. We take pride in our ability to identify novel and cost-effective methods of addressing the real-world issues faced by our clients.

Our people

Spanning the complete range of engineering, systems and technology disciplines, the people at Frazer-Nash are recognised for their expertise and professionalism.

We continually invest in the training and quality of our employees, and we're proud of the dedication and commitment they show in delivering our clients' projects.

Our employees are all professionally qualified engineers or scientists. They provide a high level of 'intellectual horsepower' coupled with an exceptional knowledge of operating and maintaining a complex operational plant.



Our areas of expertise

- Advanced engineering assessment
- Corrosion
- Decommissioning
- Design assessment support
- Electrical, control and instrumentation
- Engineering management services
- Floating and subsea systems
- Flow assurance
- Health, safety, security and environmental assurance
- Independent technical analysis
- Late life management
- Mechanical and materials engineering
- Naval architecture
- Operations assessment and support
- Organisational and technical resilience
- Process engineering and process safety
- Requirements engineering and through-life support
- Research and development
- Simulation development
- Structural integrity
- Technology management

“ At Frazer-Nash we understand what's really important to our customers: a high-quality result, complete reliability, value for money and a clear competitive edge.

Drawing on our domain experience, and using our advanced analytical skills and unique modelling techniques, we support clients across the complete oil and gas value chain. ”



To find out more about our work
and how we can add value to your business,
email oilandgas@fnc.co.uk or visit our website:

www.fnc.co.uk