Lateral delivers comprehensive breadth and depth of **capability** in the field of mechanical and systems engineering.
We undertake whole vessel engineering **from concept to detailed production design**
Simplicity

We believe that complex technology need not be arranged in a complex manner and we strive for simplicity of design where possible.

Integration

We integrate engineering across all disciplines assuring the most efficient use of space. We develop systems holistically to ensure spatial and energy efficiency.
Installation

We bring our extensive experience in production engineering to bear from inception, ensuring our designs are developed with a focus on efficient production and installation.

Operation

We bring practical knowledge of in-service operation to ensure that our designs are easy to operate and service throughout their life.
Lateral has particular expertise in the design of propulsion systems, where we keep apace with the rapidly expanding spectrum of new technologies and range of possible alternatives. Our portfolio includes:

- Conventional Diesel Mechanical
- Diesel Electric
- Hybrid - Combined Diesel and/or Electric (CODAE/CODOE)
- Combined Gas and/or Diesel (COGAD/COGOD)
- Combined Diesel and Diesel (CODAD)
- Combined Gas and Gas (COGAG)
- Water jet and Prop/Jet Hybrid
- FPP and CPP Systems
- Podded Drive Systems
- Proprietary Novel Drive Systems
We can guide the selection and configuration of the optimum propulsion system to achieve any range of required system performance criteria, be it efficiency, flexibility, noise and vibration or any combination of parameters.

Having worked with the industry’s leading and most innovative suppliers we develop our designs with input from multiple stakeholders to deliver the most effective, best value and lowest risk design possible.
In addition to the development of main propulsion systems and associated machinery space arrangements, we plan and layout all auxiliary machinery spaces: from providing support and guidance to designers and stylists in early stage space planning to preparation of final spatial arrangements for production.
Lateral’s capability covers development of the full suite of auxiliary system schematics utilising either accepted standard system arrangement philosophy, or challenging the status quo through novel arrangements tailored for energy conservation, zero discharge, integration of new technology or to increase operational effectiveness, ease of maintenance and redundancy.
The breadth and depth of experience within our team extends beyond desk-based design and engineering to providing build support during installation, commissioning assistance and in service consultancy.
Ask new questions