# **Job title:** Senior/Principal Engineer or Scientist (Ships & Dredging)

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| Main purpose |
| To take a leadership role in our ship navigation and mooring related research and consultancy projects. This position requires expertise in project management, scientific analysis, engineering skills, and a strong understanding of the marine environments. You will be responsible for leading ship navigation simulation studies using our state-of-the-art ship and tug simulators to assess and improve ship navigation safety and efficiency. Additionally, you will take the lead in ship mooring studies, utilising our extensive physical modelling facilities to analyse and optimise mooring systems in various marine environments. Collaborating with multidisciplinary teams, you will ensure the delivery of high-quality project outcomes. Effective communication with clients will be crucial, as you will need to understand their requirements and deliver solutions that meet their needs. Engaging in innovative research and development activities will support the growth of our ship navigation and mooring services. Furthermore, you will contribute to business development efforts by procuring and winning new projects and cultivating relationships with national and international clients.Your expertise and leadership will play a vital role in advancing our capabilities and maintaining our position as a leading provider of ship navigation and mooring solutions in the marine industry. |

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| Main duties |
| * Define and Lead ship navigation and mooring related research and consultancy work.
* Design, plan and execute ship navigation simulation studies using state-of-the-art software to simulate the behaviour of ships at sea and in port/terminal areas.
* Lead in ship mooring studies, utilising our extensive physical modelling facilities to analyse and optimise mooring systems in various marine environments.
* Modelling highly realistic ship and tug manoeuvring models working with our experienced, expert team of naval architects, engineers, master mariners, pilots and software modelling experts - all focused our suite of real-time ship simulators.
* Numerical modelling.
* Engaging in innovative research and development activities will support the growth of our ship navigation and mooring services.
* Carry out model analysis and deliver technical evaluations.
* Contribute to bids and proposals.
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| Group | Ships & Dredging |
| Reports to | Group Manager |
| Responsible for |  |
| Date agreed | June 2024 |