# **Job title:** Principal Engineer or Scientist, Physical Modelling

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| **Knowledge and experience** | Essential | Desirable |
| A background in the design or modelling of coastal / maritime structures, physical oceanography, or coastal processes . | X |  |
| Knowledge of breakwaters and coastal protection structures, scour protection systems, or harbour engineering. |  | X |
| Knowledge of wave mechanics and / or metocean data, analysis techniques and understanding of coastal processes. | X |  |
| Experience working on or with scaled physical models for marine / coastal engineering projects. |  | X |
| Experience in project management with the planning, management and delivery of technically challenging and complex projects on time and on budget. |  | X |

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| **Personal attributes/behaviours** | Essential | Desirable |
| Ability to listen and understand the client's business needs. | X |  |
| Ability to support discussion on clients’ technical problems; contribute to proposed solutions; and communicate complex technical themes in an easy-to-understand manner. |  | X |
| Ability to write clear technical proposals and reports, and undertake technical reviews giving sign-off to completed work. | X |  |
| Strong attention to quality and detail. | X |  |
| Good time management when handling multiple technically challenging tasks. | X |  |
| Ability to take technical and commercial ownership of allocated tasks. | X |  |
| Ability to support and work closely with other members of the Engineering Team to help find optimised and balanced solutions. | X |  |
| Ability to take the initiative, find solutions and proactively drive progress. | X |  |

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| **Qualifications and skills** | Essential | Desirable |
| A civil engineering or physical sciences related degree with a strong numerical and analytical background. | X |  |
| Professional membership of a relevant body (e.g. Institution of Civil Engineers, IMAREST), ideally Chartered. |  | X |
| A postgraduate qualification in a relevant field | X |  |