# **Job title:** Principal Scientist/Engineer (waves/metocean)

## Education and Experience

|  |  |  |
| --- | --- | --- |
|  | Essential | Desirable |
| Degree in a relevant field (e.g., physical sciences, engineering, mathematics) or equivalent | X |  |
| Postgraduate degree in a relevant field (e.g., hydrodynamics, physical oceanography, coastal engineering) | X |  |
| Chartered Scientist or Engineer |  | X |
| Highly experienced in computational modelling of waves, flows, winds, seawater temperature and other Metocean data. | X |  |
| Excellent understanding of nearshore processes, oceanographic data, computational modelling of waves and flows, and extreme value analysis, for consultancy in ports, harbours, open coast, and offshore wind sites, both for operational and extreme (design) conditions. | X |  |
| Experienced in the derivation of statistical extreme values for design (e.g., waves, water levels, wind speed, currents, both non-cyclonic and cyclonic). | X |  |
| A strong background in scientific computing in one or more of the following programming languages: Python, Matlab, FORTRAN. | X |  |
| Able to confidently discuss clients’ technical problems, formulate proposed solutions (working with the team) and execute the required work delivering the clients’ requirements. | X |  |
| Able to write clear reports, undertake QA of modelling processes, results and supporting data, and undertake technical reviews giving sign-off to completed work. | X |  |
| Delivery focussed – able to deliver projects and proposals (bids) on time and on budget. | X |  |
| Skilled in planning in the short and long-term, with the ability to manage changing priorities. | X |  |
| An interest / experience in contributing to the Company’s research programme and providing training in nearshore wave processes, modelling, and Metocean. | X |  |
| Interest in supporting and developing more junior team members | X |  |

## Personal Characteristics

|  |  |  |
| --- | --- | --- |
|  | Essential | Desirable |
| Ability to work independently, take the initiative, find solutions and proactively drive progress, while working as part of a team. | X |  |
| Outstanding communications skills, both written and verbal. | X |  |
| Resilient, highly motivated, with the ability to stay calm under pressure | X |  |
| Attention to detail | X |  |
| Quality and delivery focussed | X |  |