# **Job title: Scientist (Sediment Transport)**

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| Main purpose |
| We are seeking a Scientist with knowledge and a keen interest in sediment transport and sediment transport modelling to join our Coasts and Oceans group. You will be involved in using numerical models and data to predict changes to the sediment regime in muddy or sandy coastal and estuarine environments caused by activities such as coastal developments, deepening of shipping berths and channels, or building port infrastructure. The models will be used to determine changes to beach elevations along sandy shorelines, assess port sedimentation rates and model plumes arising from dredging operations, and will be used to support Environment Impact Assessments and sustainable developments. |

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| Main duties |
| * Consultancy and research studies involving sediment transport in the marine environment * Run computational sediment transport models that are coupled with waves and flows * Post-process model results and assist in writing of reports * Support the preparation of bids * Contribute to the development of in-house tools and models * Participate in internal forums, working groups, conferences to stay current with industry best practises and be at the forefront of the research and technology. * Support and contribute to the company’s internal research programme in relation to sediment transport. |

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| Group | Coasts & Oceans |
| Reports to | Team Leader |
| Responsible for | n/a |
| Date agreed | 25th April 2025 |