# **Job title:** Senior Engineer, Hydraulics

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| **Knowledge and experience** | Essential | Desirable |
| Real world knowledge of hydraulic design and hydraulic performance analysis for both open channel and closed-conduit/ pipe flows. | X |  |
| Real world knowledge of steady state and dynamic/ transient analyses, including application of computational/ numerical models. | X |  |
| Real world knowledge of design and operation of physical/ laboratory scale models for hydraulic structures. |  | X |
| Knowledge 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 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. | 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 |
| Experience of working closely with other members of the Engineering Team to optimise the hydraulic design of structures and facilities. | X |  |
| Experience to take the initiative, find solutions and proactively drive progress. | X |  |

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| **Qualifications and skills** | Essential | Desirable |
| An engineering or science related degree with a strong numerical and analytical background. | X |  |
| Professional membership of a relevant body (e.g. Institution of Civil Engineers), ideally Chartered or working towards Chartered status, and or a postgraduate degree in a relevant field. | X |  |