# **Job title:** Principal Engineer - Hydraulics, Engineering

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| **Knowledge and experience** | Essential | Desirable |
| Real world experience of hydraulic design and hydraulic performance analysis for both open channel and closed-conduit/ pipe flows. | X |  |
| Real world experience of steady state and dynamic/ transient analyses, including application of computational/ numerical models. | X |  |
| Real world experience of design and operation of physical/ laboratory scale models for hydraulic structures. |  | X |
| Experience in project management with the planning, management and delivery of technically challenging and complex projects on time, to the required quality, and on budget. |  | X |

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| **Personal attributes/behaviours** | Essential | Desirable |
| Ability to listen to and understand the client's business needs. |  | X |
| Ability to confidently discuss clients’ technical problems with them; formulate 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 optimise the hydraulic design of structures and facilities. | X |  |
| Ability 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, and or a postgraduate degree in a relevant field.  | X |  |