



TRINITY HOUSE

## ROLE PROFILE

### RESEARCH AND INNOVATION ENGINEER (Resilient PNT)

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#### JOB PURPOSE

To carry out development, research and engineering activities under the direction of a Principal Engineer in order to successfully deliver the GRAD project portfolio.

| KEY RESPONSIBILITIES | Project delivery                   | <ul style="list-style-type: none"><li>▪ Design, plan and conduct projects of both a practical and academic nature.</li><li>▪ Perform studies, surveys, research, tests, trials and technical demonstrations in the lab and field.</li><li>▪ Lead small teams when conducting field work.</li><li>▪ Develop innovative systems and products to benefit the GLA.</li><li>▪ Develop, calibrate and maintain the GRAD monitoring facilities.</li><li>▪ Complete necessary documentation to enable handover of projects to the GLA or external customer.</li><li>▪ Transfer knowledge of new and existing technology, equipment and systems to future operators and users.</li><li>▪ Collaborate with tri-GLA operational, technical, finance, procurement, legal and safety functions in order to complete allocated projects in accordance with appropriate recommendations, policies, regulations and legislation.</li><li>▪ Collaborate with external parties to deliver projects.</li><li>▪ Manage projects in accordance with the GRAD Quality Manual to deliver technical projects to time and budget.</li></ul> |
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|                      | Strategic and technical innovation | <ul style="list-style-type: none"><li>▪ Identify, propose and plan projects that will support the delivery of the GLA' strategic objectives.</li><li>▪ Contribute to the planning and prioritising of future projects.</li><li>▪ Support GRAD strategy development activity.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                           | <b>Stakeholder management and external liaison</b> | <ul style="list-style-type: none"> <li>▪ Liaise with GLA colleagues to provide expert training and support.</li> <li>▪ Support the Head of Research and Development at Inter-GLA committees.</li> <li>▪ Author and contribute to technical papers and present these to national and international audiences.</li> <li>▪ Provide technical input to, and influence, International and National organisations developing standards and policies in the AtoN sector.</li> </ul>                                                                                                                                                         |
|                           | <b>Team administration</b>                         | <ul style="list-style-type: none"> <li>▪ Contribute to team reporting and attend team meetings.</li> <li>▪ Contribute to the development and improvement of departmental practices and procedures.</li> <li>▪ Undertake additional tasks and responsibilities as assigned or necessary, within scope of the role.</li> </ul>                                                                                                                                                                                                                                                                                                         |
| <b>ENTRY REQUIREMENTS</b> | <b>Skills and experience</b>                       | <ul style="list-style-type: none"> <li>▪ Strong knowledge of relevant engineering, scientific and marine AtoN areas.</li> <li>▪ Deep knowledge in specialist area.</li> <li>▪ Experience in research and development within an engineering or scientific discipline.</li> <li>▪ Experience in programming languages and mathematical modelling.</li> <li>▪ Highly numerate.</li> <li>▪ Strong organisation and time management skills.</li> <li>▪ Strong ICT skills.</li> <li>▪ Strong project management skills.</li> <li>▪ Good literacy and communication to all levels (technical, non-technical, executive audience)</li> </ul> |
|                           | <b>Qualifications</b>                              | <ul style="list-style-type: none"> <li>▪ A relevant Level 6 qualification for the research area or suitable demonstrable experience.</li> <li>▪ Incorporated Engineer (IEng) with aspirations to work towards Chartered Engineer status (CEng).</li> <li>▪ Project management experience (Scrum, Agile, Prince2)</li> </ul>                                                                                                                                                                                                                                                                                                          |
|                           | <b>Professional Competencies</b>                   | <ul style="list-style-type: none"> <li>▪ Associate member of appropriate professional body (eg IET, RIN, etc.)</li> <li>▪ Working to CEng level of Engineering Council Specification (UK-SPEC).</li> <li>▪ Government Project Delivery Capability Framework (PDCF) mapped to relevant parts of 'Project Manager'.</li> <li>▪ Working to relevant parts of 'emerging' to 'experienced' level of Government Science and Engineering Framework.</li> </ul>                                                                                                                                                                              |