



TRINITY HOUSE

ROLE PROFILE

RESEARCH AND INNOVATION ENGINEER (VISUAL SIGNALLING)

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	▪ Design, plan and conduct projects of both a practical and academic nature. ▪ Perform studies, surveys, research, tests, trials and technical demonstrations in the lab and field. ▪ Lead small teams when conducting field work. ▪ Develop innovative systems and products to benefit the GLA. ▪ Develop, calibrate and maintain the GRAD measurement and monitoring facilities. ▪ Complete necessary documentation to enable handover of projects to the GLA or external customer. ▪ Transfer knowledge of new and existing technology, equipment and systems to future operators and users. ▪ 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. ▪ Collaborate with external parties to deliver projects. ▪ Manage projects in accordance with the GRAD Quality Manual to deliver technical projects to time and budget.
	Strategic and technical innovation	▪ Identify, propose and plan projects that will support the delivery of the GLA' strategic objectives. ▪ Contribute to the planning and prioritising of future projects. ▪ Support GRAD strategy development activity.

	Stakeholder management and external liaison	▪ Liaise with GLA colleagues to provide expert training and support. ▪ Support the Head of Research and Development at Inter-GLA committees. ▪ Author and contribute to technical papers and present these to national and international audiences. ▪ Provide technical input to, and influence, International and National organisations developing standards and policies in the AtoN sector.
	Team administration	▪ Contribute to team reporting and attend team meetings. ▪ Contribute to the development and improvement of departmental practices and procedures. ▪ Undertake additional tasks and responsibilities as assigned or necessary, within scope of the role.
ENTRY REQUIREMENTS	Skills and experience	▪ Strong knowledge of relevant engineering, scientific and marine AtoN areas. ▪ Deep knowledge in specialist area. ▪ Experience in research and development within an engineering or scientific discipline. ▪ Experience in programming languages and mathematical modelling. ▪ Experience with CAD software relevant to specialist area. ▪ Highly numerate. ▪ Strong organisation and time management skills. ▪ Strong ICT skills. ▪ Strong project management skills. ▪ Good literacy and communication to all levels (technical, non-technical, executive audience)
	Qualifications	▪ A relevant Level 6 qualification for the research area or suitable demonstrable experience. ▪ Incorporated Engineer (IEng) with aspirations to work towards Chartered Engineer status (CEng). ▪ Project management experience (Prince2 foundation, Prince2 practitioner desirable)
	Professional Competencies	▪ Associate member of appropriate professional body (eg IET, RIN, etc.) ▪ Working to CEng level of Engineering Council Specification (UK-SPEC). ▪ Government Project Delivery Capability Framework (PDCF) mapped to relevant parts of 'Project Manager'. ▪ Working to relevant parts of 'emerging' to 'experienced' level of Government Science and Engineering Framework.