



TRINITY HOUSE

ROLE PROFILE

RESEARCH AND INNOVATION ENGINEER (Resilient PNT)

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 General Lighthouse Authorities (GLA). ▪ Develop and maintain the GRAD 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 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 marine Aids to Navigation (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	▪ Knowledge and practical experience of radionavigation systems (such as GNSS, eLoran, R-mode, radar etc.) ▪ Experience in research and development within an engineering or scientific discipline ▪ Experience in programming, signal processing, and mathematical modelling ▪ Strong project management skills ▪ Good written and verbal communication to all levels (technical, non-technical, executive audience)
	Qualifications	▪ A relevant degree in electrical engineering, maths, physics, computing, or similar subject, or suitable demonstrable experience ▪ Incorporated Engineer with aspirations to work towards Chartered Engineer status (Desirable) ▪ Project management experience including Scrum, Agile and Prince2 (Desirable) ▪ Hold, or be eligible to obtain, UK security clearance
PERSONAL DEVELOPMENT	Professional Competencies	▪ Support membership of appropriate professional body e.g. IET, RIN ▪ Training and development opportunities as part of annual personal development review ▪ All roles are subject to the GRAD competency framework