Job Description

Role title: **Maritime GIS Analyst**

Reports to: **Principal Consultant**

Grade: **Consultant**

Sector: **Shipping Risk & Navigation**

Division: **NASH Maritime**

PURPOSE / SCOPE OF ROLE

The APEM Group, a world class consultancy, possesses a unique blend of capabilities that allow the business to operate alongside large multidisciplinary consultants and for international corporations and governments; by maintaining trusted relationships with our clients and offering agile technology and software solutions to solve complex challenges.

Within the APEM group, NASH Maritime provides a unique set of consulting, technology and software solutions in the navigation safety space. We are a high growth business, fuelled both organically and through acquisition, and increasingly through international opportunities.

The role requires strong GIS, analytical and/or mathematical capability, and you will have the opportunity to work within our core team contributing to the delivery of shipping and navigation consultancy projects across the renewables, oil and gas and ports/maritime sectors.

Your role will involve handling and analysing data in both Excel and QGIS, using in-house geoprocessing toolkits, and risk modelling using specialist tools and software. On a typical project you may be geospatially analysing and interpreting maritime vessel traffic data to characterise shipping activity and inform the identification of potential navigational hazards within the project area – such as a proposed offshore wind farm. You will be working on analytical tasks independently and cross functionally with our team of mariners, harbour masters and technical specialists to bring together the skills and capabilities of the wider team.

WHAT SUCCESS LOOKS LIKE IN THIS ROLE

You will start where you have most experience and skills, and gradually build on your expertise across our services and sectors. Appropriate training and development support will be provided as part of a tailored career progression plan, including membership of a relevant professional institution and consideration of a pathway to chartered status should this be of interest.

KEY RESPONSIBILITIES

- To handle and analyse data in Excel and QGIS using in-house geoprocessing toolkits to geospatially analyse and interpret maritime vessel traffic data and characterise shipping activity.

- To assimilate and analyse spatial and tabular data inquisitively and independently to help answer complex queries and identify patterns or trends in vessel traffic datasets using a combination of GIS tools, Python scripts and Excel functions

- To create GIS map outputs for use in client reports and other documentation (such as PowerPoint slides) for visualising spatial datasets in a clear and concise manner.

- To undertake risk modelling using specialist tools and software, e.g. informing the identification of potential navigational hazards within a project area

- Maintain NASH Maritime's GIS Library of spatial datasets and web-based APIs, periodically updating existing datasets and metadata and acquiring new datasets as required to support the delivery of consultancy outputs

- Contribute to wider APEM GIS initiatives, including the GIS Community of Practitioners Working Groups, supporting the collaborative efforts across the APEM GIS community to share expertise and best practices across the business

- To ensure GIS best practices are maintained, adhering to documented GIS standards and protocols

- Support with GIS and data Quality Control (QC) by undertaking quality reviews of GIS outputs produced for reports using NASH Maritime's QC procedure

- Support the wider team on shipping and navigation projects across the renewables, oil and gas, and ports/maritime sectors

- To carry out any additional activities that may be reasonably required or requested

- To take reasonable care for the health and safety of yourself and others; make use of the tools, equipment, training and resources; and actively engage with colleagues at all levels to contribute to the continuous improvement of health and safety management

- To complete mandatory health and safety training modules and any that are specific to your role

MARITIME

SKILLS/KNOWLEDGE/EXPERIENCE/QUALIFICATIONS

Essential -

- BSc (Hons) degree in GIS or similar.
- 1-2 years previous experience within a GIS role.
- Ability to apply your technical knowledge to analyse problems and find innovative solutions.
- Competency with GIS software (e.g. QGIS or Esri ArcGIS Pro).
- Meticulous attention to detail regarding GIS data analysis and plotting.
- Experience of handling and analysing data.
- An interest or experience in coding (E.g. python).
- Computer literacy and competency with MS office suite.
- Excellent English language writing and oral communication skills.

Desirable -

- Master's degree or higher.
- Understanding and knowledge of statistical analysis.
- An interest in developing digital and technology-based solutions.
- A demonstrable interest in the maritime industry – e.g. experience in shipping / ports / offshore renewable industry, sea faring background / interest, recreational sailor / water sports, etc.

OUR VALUES

Our most important assets are our people. We all work as one team and rely on each other. We wish to create a working environment to which our people are proud to belong, by maintaining our values at the forefront of everything we do. These values are:

- Integrity – We do the right thing

- Quality – Quality in everything

- People - We care

- Forward thinking – We focus on the future

- Positivity – We believe we can

- Fairness – We champion equality

OUR WOW FACTOR

When home became work, we learned that flexibility, understanding and balance allowed us all to move forward and grow together. So, no matter where you're based, the hours you keep, the toddlers you have to entertain, or outside interests that help with your wellbeing we're committed to our Ways of Working (WOW) with each other so we can continue to be our best.

YOU BELONG

We recognise that everyone's story is different. The opportunities, experiences and challenges faced in life shape who we are, and we understand that these are the things that make us individual and unique. Embracing our differences means we're able to approach what we do from every angle.

Inspiration and insight can come from anywhere, and no matter your history or choices in life, we empower our people to be their best, so we can be our best, together.

We welcome the whole you

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