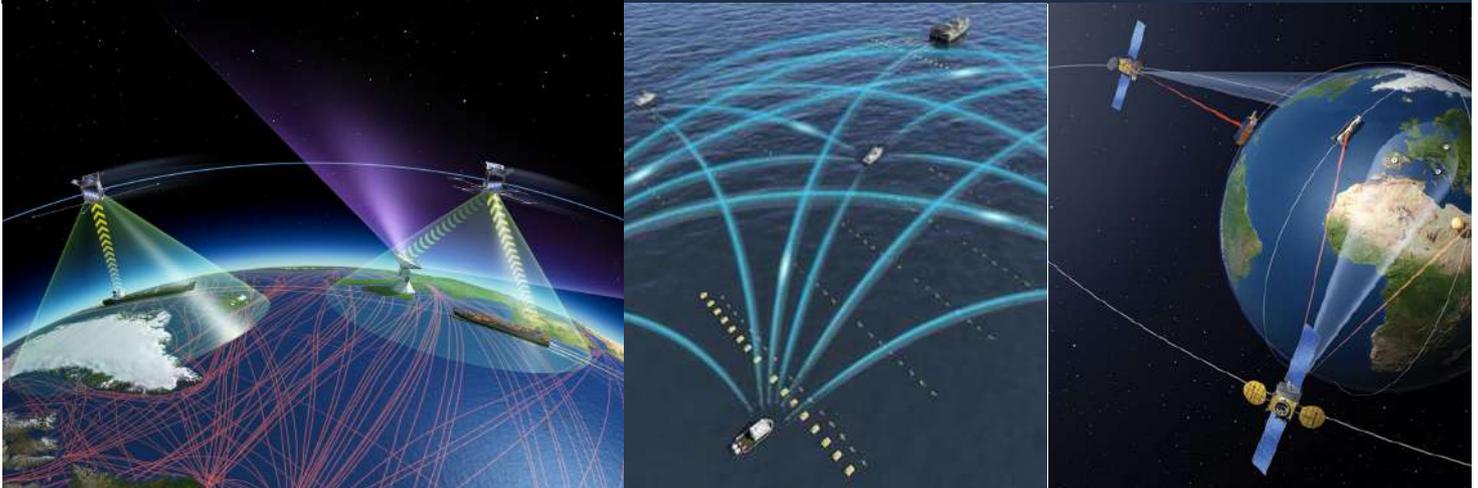# Vacancies at Offshore Navigation Limited

Opportunities:

Open positions in satellite observations of the ocean surface

Information about the current project

One of the largest challenges in the maritime industry is to develop energy efficient measures to reduce fuel cost and air emissions, as well as to enhance the safety of ships/cargoes when sailing at sea. It is well-known that weather routing and voyage optimisation are two of the most efficient solutions, while today the two concepts require further research and innovative developments to deliver high quality services to solve those challenges. ONL currently develops a sail plan service combining these two concepts. At ONL we are developing solutions using Earth observations to provide more reliable forecasts of weather and sea environments to the sail plan system.

ONL's mission is to become the World's leading provider of voyage and route planning systems. ONL shall provide the most accurate and advanced navigation system for worldwide maritime use. It enables greater fuel optimisation to support a more sustainable global maritime transport sector. ONL develops innovative route planning services based on the SpaceNav (Space Based Maritime Navigation) system. The SpaceNav concept consists of a route plan that guides vessels how to efficiently sail from one port to the next. The system contains unique observational capabilities and computational models based on space-born data to calculate the route for the vessels to follow. This in turn results in a safer and more economical execution of maritime and offshore operations. It helps to improve the efficiency of vessels and their safety, the marine environment and the working environment for the crew.

Major responsibilities

The new employees will be responsible for

- Development, implementation and validation of algorithms for extraction of waves, currents and winds at the ocean surface from Earth observation sensors and products.
- Assessment of new and upcoming Earth observation sensors, products and services that can provide information about waves, currents, and winds at the ocean surface to support weather routing and voyage optimisation.
- Supporting implementation and validation of the data processing chain from Earth observation data.

The current engagement will require interaction and close collaboration with project partners and end users in the integration of oceanographic and meteorological information into the sail plan service. Progress and results shall be documented in project reports and presented at regular project meetings.

Position summary
Full-time employment.

Qualifications

To qualify as a candidate for the position you must have a Master degree in remote sensing, physical oceanography, electrical engineering, computer science or related disciplines with a solid theoretical background in mathematics, physics, statistical analysis and programming.

A genuine interest and curiosity in the subject matter plus excellent analytical skills are needed. The candidate must have experience of algorithm development (Matlab, Python, etc) and of organizing data for statistical analysis. The position requires good verbal and written communication skills in English and documented experience of writing scientific publications.

Experience in processing and analysis of data from satellites or oceanographic/meteorological observations and models is regarded as an advantage for the position. Knowledge in physical oceanography, meteorology, ship navigation, optimisation methods, big data analysis or image processing techniques is also a merit.

Application procedure

Email us your:
− CV, include complete list of publications
− Previous teaching and managerial experiences
− Two references that we can contact.

Personal letter/Qualifications 1-2 pages:
− Introduce yourself and present your qualifications.
− Previous research domains and main research results.
− Future goals. Are there any specific projects and research issues you are primarily interested in?

Other:
− Attested copies of completed education, grades and other certificates.

Please send all to:
info@offshorenavigation.com

Application deadline:
ongoing recruitment

For more information about Offshore Navigation Limited please visit
www.offshorenavigation.com

Offshore Navigation Ltd
Accurate and advanced navigation system for worldwide offshore and maritime use enabling greater fuel optimisation and making the global maritime transport more sustainable