JASCO
APPLIED SCIENCES (AUSTRALIA) PTY LTD

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POSITION DESCRIPTION: JUNIOR PROJECT SCIENTIST (ACOUSTICS)

JASCO Applied Sciences is an international group of companies specialising in underwater noise studies, with over 30 years' experience in the Oil & Gas, Renewable Energy, Marine Construction, Environmental, Oceanographic and Defence sectors. JASCO has a worldwide reputation for performing unbiased, leading-edge environmental assessments of noise produced by industrial activities in primarily marine environments. We have offices in Canada, the United States of America, the United Kingdom, the European Union and Australia.

We devise and perform measured, objective, and comprehensive studies to support practical and proportionate environmental mitigation strategies. These studies include underwater acoustic modelling, measurement and impact assessment. We have developed custom software for acoustic modelling and analysis of measurement data, which are used to create deliverables of the highest standard. To support measurement and monitoring programs, JASCO designs, manufactures, and deploys a wide range of autonomous acoustic sensors, recorders, and calibration equipment. This equipment supports activities ranging from long-term monitoring programs in harsh environments to short-term sound source verification trials of seismic surveying sources, industrial noise, and ship noise.

JASCO is currently looking for a **Junior Project Scientist** to join the team in Brisbane, Queensland. The successful applicant will work under the supervision of a senior scientist, and be involved with projects involving underwater acoustic data collection and analysis and propagation modelling. The role will offer the opportunity to work on underwater propagation modelling and acoustic measurement studies globally, with a particular focus on projects in Australia, New Zealand and South-East Asia. Project work is often related to environmental assessments for oil and gas for oil and gas activities, marine construction, however often the results from these projects are also able to be used for the creation of scientific publications. The role will offer exciting opportunities for training with experts in the field, and the successful applicant will be exposed to a rapidly growing and successful business.

Responsibilities:

- Working with JASCO's advanced underwater acoustic modelling tools and with experienced modellers, conduct acoustic propagation modeling of marine sound sources, including geophysical and pile driving operations and commercial shipping;
- Analyse underwater acoustic recordings to quantify ambient noise, anthropogenic sources and their contribution and the presence of marine fauna;
- Prepare reports and presentations on the findings;
- Participate, initially in team with an experienced lead, in field work to collect acoustic data at study locations worldwide, possibly in remote sites and/or at sea;
- Work with acoustic monitoring equipment in the Brisbane warehouse, to mobilise, demobilise and maintain the equipment according to our procedures, which are certified under ISO 9001;
- Contribute to the writing of occasional journal articles;

Qualifications:

- A Bachelor's degree in math, science, engineering, or physics
- Familiarity with principles of underwater acoustics and/or digital signal processing from at least one senior undergraduate course
- Experience with coding in at least one data analysis rapid application development environment such as MATLAB or Interactive Data Language (IDL)

- Experience conducting statistical analysis or data visualisation using Rstudio.
- Experience or demonstrated ability to rapidly learn to use mapping programs such as ArcGIS and GlobalMapper
- Knowledge about assessing environmental impacts of human activities, especially noise related effects is an asset
- Demonstrated ability to deliver quality work within tight deadlines
- Strong planning and organising abilities with excellent interpersonal skills
- Demonstrated practical ability to work with equipment and be comfortable with the associated physical aspect of such work
- Willingness to spend time (up to a month or more per expedition, more usually one to two weeks) at sea or in remote locations conducting field work deploying and retrieving acoustic moorings
- Team player attitude but with the resourcefulness and ability to work independently

Requirements:
- Australian citizen or holding a valid long-term / permanent Australian work visa
- Outstanding oral and written English skills
- Knowledge of other languages an asset given the global footprint of the company

Benefits:
- Competitive salary and superannuation package
- Opportunities for professional advancement through conferences, courses and extensive interaction with the international scientific community

Please send CV and cover letter to: careers@jasco.com

We thank all applicants for their interest; please note, however, that only those candidates being considered for an interview will be contacted.