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**Prestigious opportunity to kick-start your career in a professional and supportive leading scientific agency**  
**Join our team at CSIRO - Australia's premier science & technology research organisation**

**The Position:**

CSIRO Oceans and Atmosphere has an exciting opportunity for a highly motivated and suitably qualified candidate.

The Acoustic and Optical Postdoctoral Fellow will work with cutting edge acoustic and optical technologies for primarily ecosystem assessments. New technologies include vessel/towed/profiling/moored active acoustic and optical instrumentation, narrow and broadband acoustic technology and stereo optical technology.

The successful applicant will collect calibrated acoustic and optical data and analyse the data to both improve the methodology and provide ecological assessments and indicators. They will liaise with other researchers and vessel operators to ensure data is collected to required standards and be able to make innovative decisions. These innovative decisions will be used to develop projects and provide unique cost effective solutions to key ecological problems. They will be responsible for the application design, at sea operation, interpretation, synthesis and reporting/publication. This will require application of knowledge to instrument development/calibration, data management, quality control and processing of large volume acoustic and optical data.

**Specifically you will:**

- With limited supervision, be responsible for the development, operation and analysis of data from cutting edge acoustic and optical technologies for fisheries, seabed and ecosystem assessments.
- Maintain, and further enhance, relationships with industry to ensure data is collected that meets research and application needs.
- Develop robust instrument calibration and data management procedures.
- Develop innovative data processing methods to improve knowledge, efficiency and provide quantitative metrics and associated data quality indicators.

**Location:** Hobart, Tasmania

**Salary:** \$78K - \$88K plus up to 15.4% superannuation

**Tenure:** specified term of 3 years

**Reference:** 7302

**To be successful you will need:**

- A doctorate (or will shortly satisfy the requirements of a PhD) in a relevant discipline area, such as applied physics and/or engineering.
- Demonstrated knowledge and understanding of applied marine ecosystem acoustics and optics from application design, instrumentation needs, at sea operation, interpretation, synthesis and reporting/publication.
- High level numerical and computing skills, demonstrated using software packages such as MatLab, R or similar programming languages that were applied to analysis of large data sets and physics based models with statistical interpretations.
- Demonstrated ability to work at sea and interact effectively with diverse external clients (e.g. fishing industry and other research institutes).
- The ability to work effectively as a key member of a multi-disciplinary, regionally dispersed research team, and, with a high degree of focus, carry out associated tasks under limited guidance, to achieve organisational goals, and, to self-organise and adapt to changing priorities and tasks.
- A record of science innovation and creativity plus the ability & willingness to incorporate novel ideas and approaches into scientific investigations with demonstrated excellent record keeping and written and oral communication skills.

**Owing to terms of the fellowship, candidates must not have more than 3 years of relevant Postdoctoral experience.**

**Who we are:** [The Commonwealth Scientific and Industrial Research Organisation \(CSIRO\)](http://www.csiro.au)

AT CSIRO WE INVENT THE FUTURE

We do this by using science and technology to solve real issues. Our solutions make a difference to industry, people and the planet.

As Australia's national science agency, we've been pushing the edge of what's possible for almost 90 years. Today we have thousands of talented people working across Australia and internationally. Our people work closely with industry and communities to leave a lasting legacy. Collectively, our innovation and excellence places us in the top ten applied research agencies in the world.

WE COLLABORATE TO INNOVATE

For further information and to apply on line for the position of Postdoctoral Fellow – Acoustics and Optics please visit our website at [www.csiro.au/careers](http://www.csiro.au/careers) choose 'Current Vacancies' and insert **reference number 7302** where indicated.

**Applications Close:** 11:59pm AEDT, 19 November 2015