

## CAREER OPPORTUNITY

The Council for Scientific and Industrial Research (CSIR) is a leading scientific and technology research organisation, implementing projects throughout Africa and making a difference in people's lives.

### Post-Doctoral Fellowship: Ocean Bio-optics

#### About the opportunity:

The CSIR has a two year **Post-doctoral Fellowship** opportunity in the Ocean Systems and Climate Research Group, within the Southern Ocean Carbon-Climate Observatory (SOCCO), which is hosted by the Natural Resources and Environment (NRE) unit. The primary aim of the post-doctoral research will be to develop and apply emerging techniques using bio-optical observations to derive information from ocean colour that will allow new insight into Southern Ocean ecosystem function. This opportunity is based in Cape Town.

For more information about NRE and SOCCO, please visit <http://nre.csir.co.za/> and <http://www.socco.co.za>.

#### Key responsibilities:

- Calibrate, maintain and run the underway Inherent Optical Property (IOP) instrumentation at sea, comprised of WetLabs AC-S (spectral absorption and attenuation), BB-3 and BB9 (multi wavelength backscattering) and Trios OSCAR (hyperspectral integrating cavity absorption);
- Process the IOP data in existing MATLAB scripts;
- Initiate further independent research within the strategic objectives of the current programme;
- Contribute to the writing of reviewed journal publications, of which at least two as the lead author;
- Assist with supervision of students, in support of the SOCCO human capital development mission;
- Lead, assist and supervise field data collection and further strategic development.

#### Qualifications, skills and experience:

- A Doctoral degree in an optical related field (e.g. laser physics, signal processing);
- Experience in acquiring and processing large data sets;
- Proficiency in coding (e.g. MATLAB, Python).

#### Applicants must attach the following documents:

- Copies of academic results (including the latest academic results or transcript);
- Copies of tertiary qualifications and ID;
- CV (highlighting relevant skills and experience) and cover letter.

**Closing date: 24 May 2019**

**PLEASE NOTE THAT FEEDBACK WILL BE GIVEN TO SHORTLISTED CANDIDATES ONLY.**

For more info, please contact the CSIR Recruitment Centre on **012 841 4774** or email us at [Recruitmentinfo@csir.co.za](mailto:Recruitmentinfo@csir.co.za)

*The CSIR is an equal opportunity employer. As such, it is committed to the Employment Equity Act of 1998. By applying for this position at the CSIR, the applicant understands, consents and agrees that the CSIR may solicit a credit and criminal report from a registered credit bureau and/or SAPS (in relation to positions that require trust and honesty and/or entail the handling of cash or finances) and may also verify the applicant's educational qualifications and employment history. **The CSIR reserves the right to remove the advertisement at any time before the stated closing date and it further reserves the right not to appoint if a suitable candidate is not identified.***