Pot-doc position advertisement posted on official IOPAN web page

Name of the position: post-doc

Requirements:

Profile of candidates:

- Ph.D. degree in Oceanography, Earth Science, Marine Science or related disciplines,
- Experience in participating in scientific projects
- documented scientific achievements including publications in recognized international scientific journals in the field of marine science/oceanography/biogeochemistry (candidates with documented publication record of authorship and co-authorship of papers in journal with IF > 2 will be preferred)
- proven experience in data analysis, of physical, biogeochemical and chemical oceanographic variables derived from modern instrumentation,
- experience in handling and processing large data sets from ocean color remote sensing
- experience in data analysis and visualization, knowledge of Ocean Data View, Matlab, Python or R computing environment.
- experience in analysis of spectral data and knowledge of multivariate statistical methods
- passion for research and independent thinking in data analysis
- experience in conducting oceanographic measurements the field of physical oceanography, ocean optics and biogeochemistry, proven knowledge of methods and instrumentation used in marine optics
- experience and analytical background in calibration and data quality assessment of optical measurements, testing and validation of ocean color remote sensing algorithms, and testing and validation radiative transfer models in marine environment,
- foreign experience: ability to work and live in diverse cultural environment, at least one short-term stay at a foreign university/research institute and presentations at international conferences
- fluency in spoken and written English
- ability for full involvement in the project, consisting in regular field and laboratory work, meetings with other members of the project and regular reporting on the progress of work to the PI, and presenting results on conferences and publications writing

Description of tasks:

A Post-doc position is available in the Remote Sensing Laboratory at Institute of Oceanology Polish Academy of Sciences in Sopot Poland. Candidate will work for research project funded by the JPI-Ocean through the National Center for Research and Development, Republic of Poland. The research project is entitled “IndicatorS Of changing Lightscapes in Underwater Marine Ecosystems”. This project will be conducted with collaboration with Leibniz Institute for Baltic Sea Research Warnemünde, Germany, University of Plymouth, Plymouth Marine

Laboratory, UK, University of Galway, Ireland, Norwegian Institute for Water Research, University of Bergen, Norway, University of Malta, Leibniz Institute of Freshwater Ecology and Inland Fisheries, Brandenburg University of Applied Sciences, and University of Greifswald, Germany.

PROJECT DESCRIPTION:

The ISOLUME project is a response to the JPI Oceans call on the "Consequences of Changing Marine Lightscapes". This call identifies the urgent need to understand both the drivers and impacts of changes in marine lightscapes on the marine environment that result from both coastal darkening and marine artificial light at night (ALAN) pollution. Our international consortium, led by the Leibniz Institute for Baltic Sea Research Warnemünde (IOW), includes partners from Germany, Poland, Norway, Ireland, UK and Malta. ISOLUME will assess how marine lightscapes have changed across European sea basins over decadal to centennial timescales, and determine drivers, sources and impacts of these changes at both large and small scales. Our approach combines historical trend analyses of in situ and remotely sensed marine optics with statistical and mechanistic modelling. It covers both large, European sea basin scales and focussed smaller scale regional case studies addressing different aspects of drivers and impacts of changing marine lightscapes. The investigation includes marine, estuarine and freshwater systems, land-ocean connectivity and temperature and salinity gradients. The project uniquely investigates four dimensions of marine lightscapes: intensity, location, timing, and spectra, with a focus on changes in the recent 25 years and projections for 2050. The involvement of external partners from European countries, industry, stakeholders, and society is facilitated through a Science Advisory and Stakeholder Panel supported by a scoping activity and a call for expression of interest. The scientific evidence-based knowledge developed in ISOLUME will advance effective monitoring and management strategies and establish policy frameworks to mitigate changing marine lightscapes.

Research tasks at the post-doc position:

- participation in data analyses of long time-series of in-situ inherent and apparent of optical properties of Baltic Sea waters and adjacent marine areas for validation of the Ocean Color – Climate Change Initiative satellite remote sensing products
- uncertainty analysis of validated satellite ocean color remote sensing products over Baltic Sea
- data analysis, of long time-series of in-situ inherent and apparent of optical properties of Baltic Sea waters and adjacent marine areas for assessment of impact of individual optically significant sea water constituents on change in sea water transparency trends in the study area
- assessing the temporal trend of change of selected inherent and apparent optical properties in the Baltic Sea waters
- participation in external consultations with foreign cooperating researchers and institutions, preparation of figures, tables, and writing manuscripts of scientific papers, presentation of results at conferences,
- participation in project promotion and dissemination

Position starts on: February 2026

Salary (before taxation): approx. 16 000 PLN/3760 Euro per month

Job offer proposal deadline due to: 28 November 2025, 15:00

Form of the job offer proposal: email

Terms of employment:

The contract of employment (full-time) for a period of 18 months.

Maximum period of employment agreement: from 1st February of 2026 to 31 July 2027,

Position starts on: February of 2026

Salary (before taxation): approx. 16 000 PLN per month. Candidate will employed under the fixed term, full time employment contract. Employment contract covers full social security plan: including disability, retirement and health insurance. IOPAN employees on scientific position are eligible for 36 days of paid holiday per year, and an allowance for holidays and recreational/cultural spending and Christmas bonus according to IOPAN employees social assistance plan.

Additional information:

Additional information about project and employment terms could be required from project PI Prof. Piotr Kowalczuk e-mail: piotr@iopan.pl;

Required documents (applications in English; .pdf format):

- CV
- Motivation letter (maximum 1 page)
- 2 letters of reference
- Copy of PhD diploma
- Candidates may include additional information or copies of documents/certificates in support of the application, specifically: seafarer's medical certificate or ENG11 (STCW95) and Personal Survival Techniques (PST) certificate (STCW95) will give a preference for a candidate
- Consent clause*

Candidates will be evaluated upon their scientific achievements (number of publication, IF of the journal they have published and number of citations), field work experience, and motivation letter

Address for applications – all documents prepared by candidates shall be sent by e-mail to: rekrutacja@iopan.pl with obligatory notification in subject "Offer for employment opportunity at post-doc position for project" copy of an offer e-mail shall be also sent to Prof. Piotr Kowalczuk e-mail: piotr@iopan.pl;

*Please attach a signed document with the following consent clause:
I hereby consent to have my personal data processed by the Institute of Oceanology Polish Academy of Science pursuant to Article 6 paragraph 1 letter a of the General Data Protection Regulation (GDPR), for the purpose of carrying out a recruitment process for the Post-doc position I also declare that I have read the information on the processing of personal data provided by the Institute in accordance with Article 13 GDPR.

....
(place and date) (signature of the declarant)

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