SITUATION

For 20 years, the Flanders Marine Institute (VLIZ) has been strengthening the accumulation of marine knowledge and the excellence of marine scientific research in Flanders. VLIZ is a coordination and information platform, a focal point for marine and coastal research, which also serves as an international contact point for marine science. Important activities are national and international networking, information and data management, scientific communication for policy and industry, education and the general public, and logistical support of marine research. Since 2017, the institute also initiates, promotes and executes innovative and multidisciplinary marine research, and this at the service of, in collaboration with or complementary to Flemish and international marine research groups.

To strengthen its research capacity, VLIZ is hiring 14 new colleagues in its Research Department. Join our multidisciplinary team in Oostende at the Belgian coast and be part of a new wave of marine research in Flanders. You will work in a unique institute in which your science will be supported by state-of-the-art data systems and services, research infrastructure, science communication and an extensive marine library. Moreover, VLIZ is part of a wide network of Belgian and international marine research groups, offering many opportunities for scientific collaboration.

In addition to these open positions, VLIZ sets up a recruitment reserve for potential temporary jobs. Opportunities may arise for the following profiles: ecological modeler, environmental data analyst/modeler with experience in R, marine biologist/taxonomist, molecular ecologist, marine geologist. Candidates with such a profile are encouraged to make a spontaneous application.

For each function, VLIZ considers enthusiastic involvement, open servitude, excellent professionalism and integrity as important characteristics.

RESEARCHER UNDERSTANDING AND OPTIMIZING ZOOPLANKTON IMAGING OBSERVATIONS

Zooplankton communities make up a crucial component of marine ecosystems through their position at the basis of the food web and as vital link between primary producers and the higher trophic levels. Zooplankton is currently mainly sampled by classical net samples integrating the water column depth.

By deploying in situ plankton sensors such as the Video Plankton Recorder and optimising the taxonomic resolution of plankton imaging analysis, VLIZ wants to address the following research questions:

1) How representative are discrete periodic sampling activities for capturing 4D zooplankton community dynamics in the Southern North Sea? What is the heterogeneity in zooplankton abundance in the Southern North Sea?

2) How important is an increase in taxonomic resolution of observations for capturing changes in the zooplankton community composition?

3) Can specific species of interest be detected in real-time with intelligent automated pipelines for operational high frequent plankton imaging systems? Which factors drive changes in their abundance and how is this related to the (zoo)plankton community composition?

This project will be performed in collaboration with one or more university research groups. There will be a focus on the collection and processing of plankton images, the analysis of large resulting data sets and related modelling. It will build on a time series of monthly zooplankton samples, processed with a ZooScan imager.

To develop this project, VLIZ hires a researcher in its Marine Observation Centre at the Research Department.
MAIN RESPONSIBILITIES

- To plan and perform a research project on understanding and optimising zooplankton imaging observations. This involves the planning and performance of sampling and observation campaigns at sea, sample and data processing, data analysis and modelling;
- To take initiative to discuss planning and report progress to the head of the research unit and collaborating scientists;
- To write high quality research manuscripts for submitting to peer-reviewed scientific journals;
- To supervise BSc and MSc students for job student, internship or thesis work;
- To interact and collaborate with colleagues at VLIZ to increase interdisciplinarity in various research projects;
- To possibly contribute to aspects of research and innovation projects in collaboration with partners from the Blue Economy;
- To Present research at national and international conferences;
- To network at national and international level with other (marine) scientists;
- To participate in sampling campaigns on board of the RV Simon Stevin and daily tasks of the VLIZ Marine Observation Centre and Research Department;
- To contribute to events organized by the Department or the Institute, such as the VLIZ Marine Science Day.

PROFILE

- MSc in Exact or Applied Sciences, including biology, ecology and (bioscience) engineering, with an interest in the analysis of large datasets, modelling, biology and ecology;
- Experience with the analysis of large data sets and/or with artificial intelligence is a plus;
- Experience with plankton imaging, e.g. with Video Plankton Recorder or ZooScan, is a plus;
- Experience with R open software, MatLab or Python is a plus;
- Critical and creative;
- Scientifically integer;
- Open minded and taking initiative;
- Passionate scientist, willing to learn new skills and develop excellent research;
- Strong interpersonal and communication skills, a motivated team player;
- Willing to work in an international context;
- Good oral and written English communication skills;
- Academic writing skills are a plus;
- Knowledge of statistics;
- Knowledge of marine plankton ecology is a plus.

ADDITIONAL INFORMATION

For more information concerning this vacancy, please contact:

- Klaas Deneudt, head of the Marine Observation Centre
  - Mail: klaas.deneudt@vliz.be
  - Telephone: +32 (0)59 34 21 43
- Michiel Vandegehuchte, Research Director VLIZ
  - Mail: michiel.vandegehuchte@vliz.be
  - Telephone: +32 (0)471 61 22 49
OUR OFFER

- We offer a challenging job in the dynamic environment of VLIZ
- A contract of two years as researcher, which will be followed by a new two-year contract in case of a positive evaluation. The salary follows the salary scales of scientific personnel in the Flemish Government. Through collaboration with academic research groups, the research may lead to a PhD at a Flemish University.
- Fringe benefits: holiday pay, end-of-year bonus, meal vouchers, hospitalization insurance, bike allowance, free public transport for home-work commuting and an attractive holiday arrangement.

DOES THIS VACANCY APPEAL TO YOU?

Send in your cover letter and CV until May 15th 2019 (23:00 CEST):

- By post: Jan Mees, General director VLIZ, InnovOcean site, Wandelaarkaai 7, 8400 Oostende
- By mail: jobs@vliz.be with subject “11 UOO - Vacancy Zooplankton Observation” Contact us by telephone on +32 (0)59 34 21 30.

VLIZ promotes equality and diversity in the workplace. You will be recruited based on competencies. Qualities of people are decisive, regardless of gender, religion, ethnic origin, age, sexual orientation or any disability.

PROCEDURE

Based on the received motivation letters and CVs, a select group of candidates will be invited for a job interview. You will be informed by email. The job interviews take place in the offices of VLIZ.

Employment can start immediately after the selection procedure and ideally not later than 1st October 2019.

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