

ACADEMIC POSITIONS

JOB DESCRIPTION

o **JOB TITLE/PROFILE**

PhD in Oceanography

o **RESEARCH FIELD(S)¹**

Environmental Sciences

o **JOB DESCRIPTION**

The Ocean Sciences Institute and the CNES are funding a PhD Scholarship in the Lagrangian study of the fine-scale physical-biological coupling. In the framework of the SWOT satellite mission (high resolution ocean circulation), this thesis proposes to bridge between ocean circulation and marine biodiversity, by exploring the impact of ocean fine scales (1-100 km) on phytoplankton community structure. In order to achieve this, biophysical data from oceanographic cruises will be analyzed by developing a novel biophysical modeling technique (Messié et al. 2020), specifically designed for addressing fine-scale questions. This work will also provide the modeling framework that will be needed for the exploitation of the future observations of the BIOSWOT-Med cruise and possibly other cruises of the BIOSWOT-AdAC international consortium (see www.swot-adac.org) during the 2023 fast sampling phase of the SWOT satellite mission.

o **QUALIFICATIONS/SKILLS/EDUCATION & RESEARCH REQUIREMENTS**

The successful candidate will have : a Master degree in oceanography or physics or mathematics ; good programming knowledge ; English language skills. Interest in marine physical-biological coupling, theoretical ecology and dynamics of complex systems will be appreciated.

o **APPLICATION DEADLINE**

31/3/22 on the CNES platform <https://recrutement.cnes.fr/fr/annonce/1497295-029-lagrangian-study-of-the-fine-scale-physical-biological-coupling-13009-marseille>

Following this date you may send your applications to andrea.doglioli@mio.osupytheas.fr and kalliopi.pediaditi@univ-amu.fr up to the 15th of April

o **STARTING DATE**

01/10/2022

o **JOB LOCATION**

MIO - Mediterranean Institute of Oceanography,
Campus de Luminy, OCEANOMED, 13288 Marseille, France.

o **REQUESTED DOCUMENTS OF APPLICATION**

¹ **Social Sciences** - Law, Education, Economics, Social Science, Psychology - **Political Science** - Political Science - **Computational Sciences** - Computer Science, Mathematics - **Engineering** - Architecture and Design, Engineering - **Natural Sciences** - Biology, Chemistry - **Physical Sciences** - Physics, Space Science - **Environmental Sciences** - Agricultural Science, Geosciences - **Humanities** - Theology, Philosophy, Literature, Linguistics, History, Anthropology, Arts and Culture - **Medical Sciences** - Medicine

Follow the guideline on the CNES website and then forward the confirmation mail to the PhD directors and kalliopi.pediaditi@univ-amu.fr

CV in English

2 Recommendation letters

Masters degree with grades

Motivation letter

o **CONTACT TO APPLY** (Email, Websites, etc.)

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Kalliopi.pediaditi@univ-amu.fr

<https://recrutement.cnes.fr/fr/annonce/1497295-029-lagrangian-study-of-the-fine-scale-physical-biological-coupling-13009-marseille>

<https://www.univ-amu.fr/en/public/ocean-institute>

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