



Università
Ca' Foscari
Venezia

Dipartimento di Scienze Ambientali,
Informatica e Statistica

Dipartimento di Scienze Ambientali, Informatica e Statistica
Università Ca' Foscari Venezia
Campus Scientifico – Via Torino 155, 30170 Mestre (VE)
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Research fellowship on “Assessment of the current and potential blue carbon storage of aquatic angiosperm ecosystems including the associated biostructuring species”- Università Ca' Foscari Venezia

(Italian law 30 December 2010, n.240, art. 22 and subsequent amendments and additions)

The present document in English is to be considered as a mere summary of the main provisions of the notice of competition which is available in Italian at the following ([link](#)) The text in Italian is the official text of the notice of competition for all legal intents and purposes and, in the event of non-conformity with the present document, it shall prevail.

Description

The Department of Environmental Science, Computer Science and Statistics at Università Ca' Foscari Venezia invites applications for a fellowship in:

TITLE: Assessment of the current and potential blue carbon storage of aquatic angiosperm ecosystems including the associated biostructuring species.

SSD e/o settore concorsuale: BIOS-05/A

GSD: 05/BIOS-05

DURATION: 12 months

TUTOR: prof.ssa Annamaria Volpi Ghirardini

CO TUTOR: prof. Marco Picone

ABSTRACT: There is increasing interest in protecting, restoring and creating ‘blue carbon’ ecosystems (e.g. tidal marshes, seagrasses) to sequester atmospheric CO₂ and thereby contribute to climate change mitigation. Although coastal vegetated habitats and seagrass beds are recognized as important contributors to carbon sequestration, they remain ignored in global budgets to date. Infact, the numerous reports and guidelines for the creation of green credits for the voluntary carbon market only take into account terrestrial forest environments, while aquatic transitional environments (lagoons) are still excluded. Among Mediterranean seagrasses, only the Neptune grass *Posidonia oceanica* has been taken into consideration for quantification and analysis of the storage of carbon and other ecosystem services (ESS) value. However, the Mediterranean sea hosts in large quantities other species of aquatic angiosperms, such as *Zostera*, *Cymodocea*, *Ruppia*, in sheltered coastal environments or in coastal lagoons. These species have never been considered, although their meadows can be greatly extended. However, a current limitation to the inclusion of aquatic angiosperms in global greenhouse gas abatement schemes is a paucity of data on carbon budgets from their meadows covering a range of species and conditions. Furthermore, an aspect that has almost never been considered is the role of biostructuring biota (e.g. calcareous algae, shelled mollusks, bryozoans, serpulid and spirorbid polychaetes, etc) associated with angiosperm meadows, although their contribution may be of great importance and need to be evaluated.

The aims of the research will be to build accounts for integrated aquatic angiosperm ecosystem and biostructuring associated biota for the Venice lagoon and to collaborate with partnership to assess the current and potential blue carbon storage of aquatic angiosperm ecosystems including the associated biostructuring species.

Funding: decree of the Minister for Universities and Research of 8 May 2023 n. 452, allocating FIRST



resources for the financial year 2023 under chapter 7245 (Action 004) of the "Fund for Investment in Scientific and Technological Research (FIRST)"

The research may be carried out in English.

The fellowship is intended to provide the successful candidate with the opportunity to pursue his/her own research while benefiting from the range of expertise at Università Ca' Foscari Venezia.

Who can apply

Prospective candidates are expected to hold a master's degree in Environmental Sciences, or related disciplines.

Ca' Foscari encourages applications from researchers with positive evaluation in all the criteria in individual proposals such as Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar.

Researchers having successfully completed Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar funded projects are warmly encouraged to apply.

Duration of contract: 12 months approximately starting: April 2025

Stipend: The research fellowship amounts to 23.367,00 Euros per year, including taxes and social charges.

Deadline for submission of applications: February 28th 2025 12.00 noon.

How to apply:

Candidates should submit:

1. The application form;
2. A motivation letter (max 1 page) along with their CV in European format, duly dated and signed, both to enclosed as a one single.pdf file. ([link](#))
3. A copy of a valid identity document (either Identity Card or Passport);
4. (If available) Evaluation Summary Reports of Marie Skłodowska Curie Actions - Individual Fellowships/ ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) individual proposals having passed all the evaluation thresholds;
5. (If available) Details of Marie Skłodowska Curie Actions - Individual Fellowships, ERC Starting Grants, FIRB (Italian Fund for basic research investments)/ SIR Scientific Young Independence Research funded projects;
6. Declaration on availability to held the interview in remote ([Link](#)) to be send via email at the following address: segreteria.dais@unive.it.



7. All documents, qualifications and publications relevant for the selection procedure (please, see the notice [link](#)).

All the schemes of the quoted documentation are available on the website ([link](#)).

How to submit your application

Applications should be submitted by the online procedure, available on the notice webpage ([link](#))

Or submit here <https://apps.unive.it/domandeconcorso-en/accesso/dais2024-volpi-prin22>

By inserting their Italian Tax Code.

Foreign citizens not yet in possession of the Italian Tax Code can use the following link <https://apps.unive.it/utills/cf> to obtain a temporary one and be able to proceed with the request.

The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of his/her application.

The candidate if necessary could access the procedures for updating any data and materials by the link provided by the e-mail, in any case any updates must be made no later than the deadline [per le strutture: indicare data e ora già segnalata sopra].

Please note that the University can be contacted for any support needs by the candidate until 24 hours prior to the deadline.

Please note that in case of an high number of applications and / or weight of the materials loaded by the candidates the system might become slower, Therefore it is suggested not to start the process close to the deadline.

NB: the University does not take on responsibility for wrong or late communication of addresses, nor for any communication problem not depending on the University.

Evaluation

Up to 100 points, specifically:

For qualifications, publications and possible tests, from 0 to 60;

For interview, from 0 to 40.

Selection procedure

Short-listed candidates will be invited for interview on **18 march 2025 at 14.00 p.m** (italian hour) and the short-list of the candidates admitted to the interview, or any postponement, will be published on the University's webpage by 12 march 2025 ([link](#)).

The interview will be held in presence at University of Venice, Scientific Campus in Via Torino 155 - Mestre Venezia.

Interview Topics

- Knowledge of the topics of the call



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- Complete autonomy for carrying out the field sampling and necessary analyses for the research
- Good knowledge of English
- Good knowledge of Italian

Scientific products

The research fellow, at the end of his/her activity must also provide the department with the following scientific products:

- Research Fellowship Final Report

Information and contacts

Candidates may find further details about the application process and the research project in the official call published on the following ([link](#))

For further information please contact 041/2348526 - 041/2348531 – segreteria.dais@unive.it