

Research fellowship on: Monitoring of mountainous fluvial ecosystems through metabolic and temperature indicators (In the framework of the activities of Spoke 1 of the PNRR iNEST Project, Interconnected North-East Innovation Ecosystem - **CUP: H43C22000540006**)

- Università Ca' Foscari Venezia (Italian law 30 December 2010, n.240, art. 18 and 22)

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 CESA Center at Università Ca' Foscari Venezia, in charge of the administrative management of the above mentioned project, invites applications for a fellowship in:

Title: Monitoring of mountainous fluvial ecosystems through metabolic and temperature indicators

SSD or Research sector: ICAR02 - Hydraulic and Maritime Construction and Hydrology

Scientific coordinator or supervisor: prof. Enrico Bertuzzo

Duration: 24 months

Abstract:

The research fellow position is part of the National Recovery and Resilience Plan (NRRP) project "Interconnected Nord-Est Innovation Ecosystem" (iNEST) funded from the European Union - NextGenerationEU. The goal of the project is to create an innovation ecosystem whose characterizing dimension is the synergy across the territory and the digital technology as the common theme to ultimately overcome its fragmentation. The research fellow will in particular contribute to Research Topic 2 (RT2 - Resilience of mountain production systems and supply chains) and 3 (RT3 - Decentralization of mountain structures and infrastructures) of Spoke 1 (Ecosystems for Mountain Innovation) of the iNEST project, by carrying out industrial research and/or development mostly on the following topics: a) deployment of a fluvial ecosystem monitoring network based on high-frequency measurements of dissolved oxygen and temperature; b) development of ecosystem health indicators based on temperature and estimates of fluvial metabolism; and c) theoretical and experimental studies on the impacts of climate change and anthropization on fluvial ecosystem health. Furthermore, he/she will actively take part and/or contribute to other (current or future) activities of the Spoke 1 as well as the whole I-NEST ecosystem (e.g., technology transfer, networking, citizen engagement, and reporting).

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 PhD and a scientific-professional curriculum suitable for carrying out the research described in this call.

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.

The following are considered preferential qualifications:

- a- Publications on topics that are relevant to the abstract of this call.
- b- Specialization diplomas and certificates of attendance at postgraduate specialization courses, obtained both in Italy and abroad, the performance of documented research activities carried out with public and private entities both in Italy and abroad.

Duration of contract: twelve months (approximately starting in December 2022)

Stipend: The research fellowship amounts to 36,480.57 Euros per year, including taxes and social charges.

Deadline for submission of applications: December 1st 2022, 12.00 noon CET.

How to apply:

Candidates must submit:

1. The application form
2. A motivation letter (max 1 page) along with their CV in European format, duly dated and signed, both 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. A declaration of availability to hold the interview online (template available at this [Link](#)), which is to be emailed to: inest_pnrr@unive.it
7. Any other documents, qualifications and publications deemed relevant for the selection procedure (See the notice at this [link](#)).

Templates for the above mentioned documentation are available on the University's website ([link](#)).

How to submit your application

Applications must be submitted online, exclusively through the procedure that can be entered at the following link: <https://apps.unive.it/domandeconcorso-en/accesso/inest01122022monitoraggio>

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

The candidate can, if necessary, access the procedures and update uploaded data and materials via the link provided by the e-mail. Updates are only accepted before the deadline of **December 1st, 2022, 12.00 noon CET**

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

In case of a high number of applications and / or weight of the materials uploaded by the candidates the system might become slower, therefore it is suggested not to start the application 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 and publications, from 0 up to 60 points (42 points is the minimum score for admission to the interview)

For the interview, from 0 up to 40 points (28 point is the minimum score for passing the interview)

Selection procedure

Interviews will take place online on December 7th, 2022, at 9.30 am CET.

The list of candidates admitted to the interview together with notice of any postponements, or changes in the time of the interview, will be announced on **December 5th, 2022** by means of a notice that will be published at the following [link](#). **It is the candidate's responsibility to check the admission results and, if admitted, to show up at the required date and time.**

The interview may ascertain knowledge of the following topics:



- River monitoring networks based on high-frequency waves of temperature and dissolved oxygen.
- Estimates of metabolism from dissolved oxygen time series.
- Thermal regime of river networks
- Italian language assessment for foreign candidates,

Information and contacts

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

For further information please contact CESA, email: inest_pnrr@unive.it