



Research fellowship on: Conversion of CO₂ and industrial waste into chemicals or fuels (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: Conversion of CO₂ and industrial wastes into chemicals or fuels.

- **SSD and/or sector** CHIM04.
- **Scientific coordinator and tutor:** Prof. Michela Signoretto
- **Duration** 24 months
- **Abstract:** The project will focus on the development of green processes for the production of chemicals and energy with particular attention to the production of key products such as methanol, methane and hydrogen. The research proposes a systemic approach to the problem of CO₂ emissions and a new paradigm focused on the use of a generation of advanced CCS (Carbon Capture and Storage) and CCU (Carbon Capture Use) technologies for the decarbonisation of the economy through reduction, the reuse, recycling and removal of CO₂. Research will be able to concretely transition to a carbon negative economy by transforming CO₂ and industrial waste from garbage to resource.

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 Industrial Chemistry, Chemistry, Bio and Nanomaterials Science and Technology, Chemistry or Sustainable Technologies, 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.

The following are considered preferential qualifications:

- a. a Ph.D. in Chemistry;
- 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;
- d. Expertise in the field of synthesis and characterization of materials particularly in the synthesis of catalytic materials

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

Stipend: The research fellowship amounts to 19,367.00 Euros per year, including taxes and social charges.

Deadline for submission of applications: 30th November, 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/inest29112022>

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 November 30th, 2022 at 12.00 noon CET.

Please note that the candidate can contact the University for any support needs only up to 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 very 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

The interview will take place on **December 06, 2022 at 9:30 am** in attendance. The list of candidates admitted to the interview, the venue and/or any postponements will be announced on **December 2, 2022** at the following link ([link](#)). **It is the candidate's responsibility to check the admission results and, if admitted, to show up at the required place, date and time.**

The interview may ascertain knowledge of the following topics:

Synthesis and characterization of materials

Knowledge of Italian 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