

Research fellowship on “Synthesis of macrocyclic organic carbonates via sustainable synthetic methodologies” –

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 Molecular Sciences and Nanosystems at Università Ca' Foscari Venezia invites applications for a fellowship lasting 12 months titled “Synthesis of macrocyclic organic carbonates via sustainable synthetic methodologies”, SSD: CHEM-05/A, GSD: 05/CHEM-05, project PRIN 2022 PNRR titled “Accessing SUsustainable polyCARbonates from bio-based diols via organo- and biocatalytic Ring-Opening Polymerization (ASUCAROP)”, cod. P20224TTZF, CUP: H53D23007890001, tutor and principal investigator: prof.ssa Giulia Fiorani.

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.

Abstract:

The Fellow will develop a library of macrocyclic organic carbonates (CC), synthesized from the corresponding 1,n-diols and commercially available linear organic carbonates in batch and/or continuous flow conditions in presence of suitable catalysts. The activities will be specifically directed 1) optimize a synthetic protocol in batch and continuous flow and 2) employ the resulting macrocyclic monomers to the synthesis of aliphatic polycarbonates (APCs) via ring opening polymerization (ROP).

All these research activities are included within WP2 and WP3 of the project and will be carried out in collaboration with the other partners. The researcher will be also involved in the dissemination activities which are included in WP4.

Who can apply

Prospective candidates are expected to hold a Master Degree in the field of Chemical Sciences (or equivalent) and professional scientific curriculum suitable for carrying out research activities.

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 qualifications are considered as evaluation criteria:

- a. PhD graduation;
- b. the completion of attendance of a PhD course pending the awarding of the title;
- c. specialization diplomas and certificates of attendance of post-graduate specialization courses, obtained both in Italy and abroad, the carrying out of documented research activities at public and private entities with contracts, scholarships or assignments both in Italy and abroad;
- d. previous experience gained in topics similar to those of the tender.

Duration of contract: 12 months, approximately starting: in **December 2024**.

Stipend: The research fellowship amounts to **Euro € 24.500,00** per year gross of the recipient, net of the expenses to be sustained by the Provider.

Deadline for submission of applications: 4th November 2024, at 12.00 a.m. (Rome CET).

How to apply:

Candidates shall 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](#)); a declaration must be appended in the footnote of the curriculum, pursuant to the Italian DPR 445/2000 and subsequent amendments and additions, that the information provided corresponds to the truth. Moreover the candidates have to consent to the use of their personal data for the purposes of this selection procedure pursuant to the Italian Legislative Decree 196/2003 and to the EU Regulations 2016/679;
3. The attachments called “obligations and understanding” and “participation and compatibility”;
4. All documents, qualifications and publications relevant for the selection procedure (please, see the notice - [link](#));
5. A copy of a valid identity document (either Identity Card or Passport);
6. (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;
7. (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;
8. Declaration on availability to held the interview in remote ([Link](#)) to be send via email at the following address: ricerca.dsmn@unive.it

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

Incomplete applications will be rejected.

How to submit your application

Applications should be submitted by the online procedure, available on this link:

<https://apps.unive.it/domandeconcorso-en/accesso/dsmn-fiorani-arprin22asucarop>

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 30th^t October 2024, at 12.00 noon.

If you don't have an Italian tax identification code, please click on “Calculate Italian tax identification code (codice fiscale)”.

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.

Topics of the interview:

- Synthesis and reactivity of cyclic organic carbonates;
- Organocatalysis in batch and continuous flow;
- Assessment of knowledge of the foreign language English by carrying out part of the interview in English.

Evaluation

Up to 100 points, specifically:

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

For interview, from 0 to 40.

Selection procedure

The interview will be on **15/11/2024 at 10:30 a.m.**

by remote at the link:

<https://meet.google.com/ygc-vvsw-igt>

The list of candidates admitted to the interview or any postponements will be made known on **07th November 2024** through a notice that will be published on the website of this University ([link](#)) and on the web pages required by current legislation

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 the Research Office, email: ricerca.dsmn@unive.it, Ph: 0412348633/8514.

The Head of Department of
Molecular Sciences and Nanosystems
Prof. Maurizio Selva

Responsible for administrative procedure
The Secretary of Department
Mrs. Sonia Barizza