

Rep. n. 442/2020 prot. n. 49999 del 21/09/2020

**Call for n. 1 Short Research Fellowship - Ca' Foscari University of Venice– Department of
Molecular Sciences and Nanosystems**

(L. 240 del December 30th 2010, art. 18, DL 19/2012;

Regulations about Short Research fellowships DR 399/2018 del 04/05/2018

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The present document in English is to be considered as a mere translation of the provisions of the call 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.

The Department of Molecular Sciences and Nanosystems of Ca' Foscari University of Venice, having regard to the Decree of the Head of the Department Rep. No. 493/2020 prot. No. 55236 of 08/10/2020 establishing the research programmes for awarding of the short fellowships in "**Development of innovative materials for the construction of highly efficient Fuel Cells**", SSD: CHIM/04, Tutor Prof.ssa Michela Signoretto, lasting 6 months, with the possibility of renewal within the limits of art. 4 of the Regulations for awarding of university short research fellowships.

The expected starting date is in **November 2020**.

The research fellowship is awarded for the purpose of collaboration with the following research programme of the Department of Molecular Sciences and Nanosystems:

The project aims at the development (design, synthesis and characterization) of innovative oxidic materials to be used as a coating of the anodic component of a fuel cell. The principal goal will be to replace standard anodic coatings with materials that allow the cell to operate with liquid hydrocarbon fuels (e.g. jet-fuel in the case of aeronautical applications) without presenting the typical problems of conventional SOFCs (carbon formation and poisoning by sulfur) and without the need to install a fuel clean-up device. Effective but at the same time easily scalable synthetic approaches (for example precipitation or template synthesis) should be used to ensure an easy technological transfer of the optimized methodology. Oxidic systems will be thoroughly characterized from a structural, morphological and chemical-physical point of view. To achieve the objectives of the project, the fellow will to have good knowledge of traditional and advanced synthesis techniques of catalysts and materials and of the techniques mainly used for their characterization (physisorption, chemisorption, thermal analysis, programmed temperature measurements, infrared spectroscopy, microscopy).

The research fellowship amounts to Euro **9,600.00**.

Deadline: October 28th, 2020 at 12:00 PM (Italy time)

Rules of eligibility - Beneficiaries.

- People with masters degree (or equivalent) in **Materials Science, Industrial Chemistry or Chemistry** and an adequate scientific and professional CV are eligible.

Information and contacts: For more information contact: Dott. Stefania Zane tel.041 2348633 e-mail: ricerca.dsmn@unive.it

Dipartimento di Scienze Molecolari e Nanosistemi - Settore Ricerca

Campus scientifico di Via Torino, 155 - 30172 Mestre-Venezia
ricerca.dsmn@unive.it / T. 041 234 8633

In addition, the following knowledge, skills and experience will be evaluated as preferential qualifications:

- a. Phd;
- b. Experience in the synthesis and characterization of heterogeneous catalysts and materials;
- c. Participation in research projects at recognized research institutions (universities and other research Institutions).

Applicants must hold all the requisites within the call deadline. The qualifications will be evaluated by a Commission that examines the eligibility and qualifications of the candidates and makes a merit rank of them.

Short Research Fellowship to non-EU citizens.

If a non-EU citizen already living in Italy applies for a Research Fellowship, he must hold a residence permit valid up to the Deadline of the call. Otherwise, the Department undertakes to undergo the procedures for obtaining a residence permit for research activities.

How to apply

Candidates should submit:

1. The application form (<http://www.unive.it/data/28900/>), duly dated and signed.
2. A CV in European format (<http://www.unive.it/data/28900/>), **with mark degree**, duly dated and signed.
3. A photocopy of a valid identity document (e.g. Identity Card or Passport).
4. All documents, qualifications and publications relevant for the selection procedure.

How to submit your application

- Hard copy of the application should be printed, signed and delivered to **Segreteria del Dipartimento di Scienze Molecolari e Nanosistema, Via Torino 155 - 30172 Mestre Venezia- Edificio Alfa 4° Piano**, by registered mail with return receipt or by e- mail to: ricerca.dsmn@unive.it.

Selection procedure

The selection is made by assessment of the scientific-professional qualifications of the candidates and the *curriculum vitae et studiorum* .

Incompatibility

The fellowships within this announcement may not be combined with:

- other research grants;
- fellowships of any other kind, except for those awarded by national or foreign research institutes to integrate, with periods abroad, the specific research activities required by this announcement.

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In the case of self-employment, employment or para-subordinate employment, compatibility shall be determined by the Research Project Supervisor.

The granting of the Short Research fellowship does not give rise to the establishment of any employment relationship, nor does it give rise to rights regarding access to the roles of the University staff.

Information and contacts

Candidates may find further details about the application process and the research project in the official call published on: <http://www.unive.it/data/28824/>.

For further information please contact Segreteria DSMN, tel.041-2348633 email: ricerca.dsmn@unive.it

Evaluation Procedure and Commission.

A **Commission** summoned by the Director of the Department, who indicates the President of the Commission and the member taking the minutes, will evaluate the applications.

Evaluation procedure. The Commission defines the general evaluation criteria. The interview and any other test must ascertain the suitability of the applicant to the research activity. The Commission compiles a ranking and specifies the winning applicant, having regard to the score appointed to experience and qualifications, interview and any other test, as specified by the call.

Awarding of the short research fellowship Having received the selection documents, and at the outcome of the checks, the Director approves, by his own decree, the classification and the selection procedure reports and makes them public according to the procedures specified in the Regulation awarding the short research fellowship art. 6 and in the website <http://www.unive.it/data/28900/>. Exclusion is justified in detail in the selection reports which can be accessed in accordance with law 241/90.

The Director of the Department/Centre at which the research programme will be conducted awards the research fellowship to the winner of the selection procedure, subject to ascertainment of the prescribed requirements. The latter shall accept the award within 7 (seven) days from receipt of the communication by signing the relative contract at the competent office of the Department of Molecular Sciences and Nanosystems, which will establish the terms of and procedures for the collaboration and allocation of the grant.

Grant

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. The tutor coordinates the activities of the Research Fellow and any other research activity within the same program and provides the Fellow with all the information for carrying out the research.

The Department provides the Research Fellow with the needed back-up support such as access to facilities, equipment and administrative services.

The Research Fellowship is not, in any case, considered as an employment contract and the Fellow is not part of the University staff.

The rights for any patentable invention coming from Research Activities belong to the University or entities with which the University has signed (or will sign) specific agreements.

The person responsible for administrative proceedings

In accordance with Art. 5 of Law no. 241 dated 7 August 1990, as amended, the person responsible for the selection process (RPA) is Sonia Barizza who can be reached at the Department of Molecular Sciences and Nanosystems, at the e-mail address ricerca.dsmn@unive.it.

Final provisions

For anything not specified in this call, see the University of Venice's current regulations regarding the awarding for research fellowships and the current legislation.

Venice, October 8th 2020

The Head of Department of
Molecular Sciences and Nanosystems

Prof. Pietro Riello

digitally signed ex art.24 Dlgs 82/2005 (CAD) e ss.mm.ii

VISTO

La responsabile del procedimento

La Segretaria del Dipartimento di Scienze Molecolari e Nanosistemi

Sonia Barizza: barizza@unive.it

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