



Call for ESF short-term research fellowship

Call for applications for 1 short-term research fellowship - Ca' Foscari University of Venice - Department of Molecular Sciences and Nanosystems

(Italian Law no. 240 of 30 December 2010, Art. 18, Italian Decree-Law no. 19/2012; Regulation for awarding of short-term research fellowships issued with Regional Decree no. DR 399/2018 of 04/05/2018 and 1141/2020 of 19/11/2020)

HAVING REGARD TO the Regional Management Decree no. 231 of 10/03/2020 and subsequent amendments and additions, which approves the research project with code 2120-0013-1463-2019, entitled "Enhancement of the terpene fraction of waste from the agri-food sector: green extractions with supercritical carbon dioxide for the formulation of nutraceutical and cosmetic products with antioxidant and anti-inflammatory activity" CUP H74I19001920002 as part of the 2019 regional call for applications - Decree of the Regional Government no. 1463/2019 - "Innovazione e ricerca per un Veneto più competitivo" (Innovation and Research to make Veneto more Competitive) - POR ESF 2014-2020 - Ob. "Investments to encourage growth and employment";

Description

The Department of Molecular Sciences and Nanosystems of the Ca' Foscari University of Venice, on the basis of Decree no. 275/2021 prot. n. 24839 of 09/04/2021 on the awarding of 1 short-research grant, hereby calls for applications for the research entitled **"Green extraction with supercritical CO₂ of processing waste from the confectionery sector"** lasting 2 months.

The Fellow must perform:

The fellow will have to carry out the following research activity: scientific support and development of the scaling of innovative extraction techniques based on eco-sustainable solvents from laboratory scale to pilot plant for the treatment of waste samples of plant origin and in the processing / purification of active ingredients (extracts) for use in cosmetic / nutraceutical formulations. The fellow will assist the research fellow in batch and flow experimentation with particular attention to subsequent trials on a semi-industrial scale, both for the practical implementation of the extraction tests and for the promotion and dissemination of results. The Scholarship holder will support the training of the recipient in the operating procedures in the use of dense CO₂ plants and in the application of the technologies to the matrices of plant origin subject of the study. The fellow will also be involved upstream of the extraction process in carrying out the pretreatment phases of the residual biomass for the optimization of the sample preparation process. The fellow will be asked to support the Research Fellow in preparing / drafting the oral presentations and the foreseen reports in order to make the analysis of the results more efficient and stimulate the internal comparison between the partners involved, but also facilitate the non-specialist dissemination of the project contents. to inform a wider external audience.

As stated in the ESF Directive, Decree of the Regional Government no. 1463/2019, upon completing their research, fellows must provide the department with the following research output:

- a **final report on the activities undertaken**, highlighting the results achieved.

The Fellow will also be required to complete a **"weekly diary"**, recording their research activities.

For anything not specified in this Call, please refer to the Regulations, applicable legislation and the Regional Directive on the ESF funding in question and subsequent additions

Duration of the contract: 2 months, indicatively starting from in **May 2021**



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Amount: The total research grant is € 4300,00. The amount awarded is understood to include any costs relating to the undertaking of the research envisaged by the project.

N.B. In the case of a fellowships lasting less than two or three months, the amounts will be recalculated based on the actual duration.

Deadline for the submission of applications: 29th April 2021 at 9.00 a.m. (italian time)

Who can apply? (University Regulation for short-term research fellowships, Art. 3)

Applications are open to EU citizens and non-EU citizens who hold:

- a) A Bachelor's degree, Master's degree or equivalent foreign qualification in **chemical disciplines**.

They will also be considered as preferential titles:

- have completed the PhD course in the same research areas of the project;
- skills and experience in the use of innovative extraction techniques based on eco-sustainable solvents (from laboratory scale to pilot plant) for the treatment of waste samples of plant origin;
- skills and experience in the processing / purification of active ingredients (extracts) to be used for formulations in the cosmetic / nutraceutical field -Experience in technology transfer activities (intellectual property, Spin Off, Third Mission);

The requirements must be held by the deadline for this call for applications.

Candidates are admitted to the selection conditionally; they may be excluded from the call at any time should they fail to meet the predefined requirements, even after the selection process is complete, with just cause and notification sent to the person concerned.

Incompatibility (University Regulations for short-term research fellowships, Art. 12)

The grant may not be combined with:

- research grants awarded according to Law no. 240 of 30 December 2010, Art. 22 ("*assegno di ricerca*");
- scholarships awarded for any reason, except those awarded by national and foreign research institutes for research periods abroad as part of the specific activities stated in the programme of work carried out by the holder.

If the grant holder is also self-employed or an employee or contract worker, compatibility shall be certified by the Principal Investigator.

The awarding of the grant does not imply the establishment of any employment contract, nor does it give rise to any rights of access to positions of employment at the university.

How to apply (University Regulations for short-term research fellowships, Art. 5)

Candidates must submit an online application with all the required documents in accordance with the Regulations on Short research fellowship awarding and the following paragraphs.



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Applications, together with all the required documentation, have to be submitted exclusively online at the following webpage:

<https://apps.unive.it/domandeconcorso-en/accesso/dsmn-fse-2120-0013-1463-2019-ani>

not later than noon time (9:00 a.m. Rome CET) of April 29, 2021.

The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of their application. The candidate if necessary could access the procedures for updating any data and materials through the link and submission number provided in the e-mail until the call deadline expires.

Please note that the University can be contacted for any support needs by the candidate until 24 hours prior to the deadline. For further information please contact: Segretariat of the Department of Molecular Sciences and Nanosystems, Research section, tel. 041-2348633, e-mail: ricerca.dsmn@unive.it

The University accepts no liability in the event of the recipient being untraceable or dispersion of the communications due to inaccurate indication of the domicile by the candidate, failure or delay in communication of variation of domicile or causes not depending on the University, or for any postal, telegraphic or telematic error or those attributable to third parties, chance events or force majeure.

The declarations made in the application shall be considered issued in accordance with the DPR no. 445/2000 and subsequent amendments, by candidates entitled to use the simplified administrative certifications permitted by the above decree.

Selection and evaluation procedures

Candidates shall be selected, on the basis of their qualifications and an interview, by a selection committee appointed pursuant to Art. 7 of the Regulation for the awarding of short-term research fellowships.

The interview will be on **April 29th 2021 at 11.00 a.m. (italian time).**

The interview will be held in remote through GoogleMeet

The topics of the interview will be:

- Scale-up of extractive processes with supercritical fluids;
- Isolation, purification and characterization of extracts of plant origin.

The Selection Committee awards a maximum of 100 points to applications, on the basis of the qualifications and interview and then drafts a final merit-based ranking according to the assigned scores and identifies the winner. If the event of a tie, priority shall be granted to the younger of the two candidates.

The ranking shall be used according to the order in which it has been formulated and, in the event of withdrawal or failure by the assignee to accept the award by the deadline set by the department or early termination of the research collaboration agreement, the grant shall be assigned to another candidate



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following the order of the final merit-based ranking, in accordance with the Regulation for the Awarding of short-term research fellowships (Art. 8). The Selection Committee shall submit a competition report to the Director of the research department, who, after verifying the legitimacy of the competition procedure, shall approve the procedure and award the grant by Director's decree.

Awarding of the grant and publication of the documents

Having received the documents relating to the selection procedure, the Department Director shall approve the ranking and the competition report by Director's decree and make them public.

The secretariat of the department that issued the call for applications shall inform the winner in writing, including the start date of the grant.

The winner must accept the grant within seven days of receipt of the written notification referred to above, under penalty of revocation. In the event of withdrawal by the assignee, the grant shall be assigned to another candidate, following the order of the final merit-based ranking.

The results of all phases of the selection process shall be published in the University's online register, on the Department web page (<https://www.unive.it/data/18499/>) and on the dedicated page of the University website [link](#).

Access shall nonetheless be guaranteed to the records of the selection procedure, pursuant to Italian Law no. 241 of 7 August 1990 and subsequent amendments and additions and the relative internal implementing regulation.

Person in charge of the procedure

In accordance with the provisions of Art. 5 of Italian Law no. 241 of 07/08/1990 and subsequent amendments and additions, the person in charge of the administrative procedure for this selection procedure 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 rules

For anything not contemplated by this Call for Applications, please refer to the Regulation, applicable legislation and the Regional Directive on the ESF funding in question and subsequent additions.

Venice, April 9, 2021

Il Direttore del Dipartimento di
Scienze Molecolari e Nanosistemi

Prof. Pietro Riello
f.to digitalmente 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

Telefono: 041-2348535 fax 041-2348535