



Università  
Ca' Foscari  
Venezia

Dipartimento di Scienze  
Molecolari e Nanosistemi

Dipartimento di Scienze Molecolari e Nanosistemi  
Università Ca' Foscari Venezia  
Campus Scientifico – Via Torino 155, 30170 Mestre (VE)  
P.IVA 00816350276 - CF 80007720271  
www.unive.it/dsmn

## Decreto del Direttore del Dipartimento di Scienze Molecolari e Nanosistemi 2025

**Oggetto:** Decreto Direttoriale di proroga e modifica dei requisiti di accesso del bando di selezione per 1 (un) assegno di ricerca della durata di 12 (dodici) mesi dal titolo "Chemical valorization of bio-based molecules from biowaste", SSD: CHEM-05/A, GSD: 03/CHEM-05, Responsabile scientifico e tutor: Proff. Maurizio Selva e Alvisè Perosa, relativamente al progetto "REWIND - Re-Evaluating Waste to INcrease Development: Catalytic upgrading of bio-based building blocks for a new chemical circular economy", COD. 20223ARWAY, CUP H53C24000700006, BANDO PRIN 2022

### IL DIRETTORE DEL DIPARTIMENTO DI SCIENZE MOLECOLARI E NANOSISTEMI

- VISTA la Legge 240/2010 art. 22 in merito agli assegni di ricerca;
- VISTO lo Statuto di Ateneo;
- VISTO il Regolamento di Ateneo per l'amministrazione, la finanza e la contabilità;
- VISTE le procedure previste dal Regolamento per il conferimento degli assegni di ricerca emanato con D.R. n. n. 1139/2020;
- VISTO il D.P.R. 28 dicembre 2000, n. 445, "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa";
- RICHIAMATA la deliberazione del Consiglio di Dipartimento di Scienze Molecolari e Nanosistemi del 21/01/2025 con la quale è stata attribuita la delega per procedure amministrative al Direttore di Dipartimento per l'anno 2025;
- RICHIAMATO il D.R. n. 1090/2023 Prot. n. 224517 del 28/09/2023 di nomina del prof. Maurizio Selva a Direttore del Dipartimento di Scienze Molecolari e Nanosistemi per lo scorcio del triennio accademico 2023/24 – 2025/26;
- VISTO l'art. 32 comma 6 dello Statuto di Ateneo;
- VISTO il D.R. n. 1160/2023 Prot. n. 231318 del 09/10/2023 di nomina della prof.ssa Patrizia Canton a Vice Direttore del Dipartimento di Scienze Molecolari e Nanosistemi per lo scorcio del triennio accademico 2023/24 – 2025/26;
- VISTO il Decreto del Direttore del Dipartimento di Scienze Molecolari e Nanosistemi Rep. N. 1236/2024 prot. N. 286540 del 20/12/2024 con il quale è stato autorizzato l'avvio delle procedure di selezione relative al bando per il conferimento di 1 (un) assegno di ricerca della durata di 12 (dodici) mesi dal titolo "Chemical valorization of bio-based molecules from biowaste", SSD: CHEM-05/A, GSD: 03/CHEM-05, Responsabile scientifico e tutor: Proff. Maurizio Selva e Alvisè Perosa;
- VISTO il bando Rep. n. 1247/2024 prot. N. 288369 del 23/12/2024 per la selezione pubblica per l'attribuzione di un (1) assegno di ricerca della durata di 12 mesi dal titolo "Chemical valorization of bio-based molecules from biowaste", SSD: CHEM-05/A, GSD: 03/CHEM-05, Responsabile scientifico e tutor: Proff. Maurizio Selva e Alvisè Perosa, pubblicato sulla pagina web dell'Ateneo e nelle pagine web richieste dalla normativa;



VERIFICATO che si rende necessario allargare il bacino di affluenza di candidati e candidate alla selezione pubblica;

### DECRETA

**Art. 1:** Di stabilire come requisito di accesso alla selezione in oggetto tutte la Lauree Magistrali nel Campo delle Scienze Chimiche e affini;

**Art. 2:** Di prorogare al 31/03/2025 ore 12:00 la scadenza del bando di selezione Rep. n. 1247/2024 prot. N. 288369 del 23/12/2024 per la selezione pubblica per l'attribuzione di un (1) assegno di ricerca della durata di 12 mesi dal titolo "Chemical valorization of bio-based molecules from biowaste", SSD: CHEM-05/A, GSD: 03/CHEM-05, Responsabili scientifici e tutor: Proff. Maurizio Selva e Alvisè Perosa;

**Art. 3:** Di rinviare la data del colloquio di selezione al giorno 11/04/2025 alle ore 09:30. Questa Università renderà noto l'elenco delle persone candidate ammesse al colloquio o eventuali rinvii il giorno 09/04/2025 mediante avviso che verrà pubblicato nel sito web di questo Ateneo ([link](#)) e nelle pagine web previste dalla normativa vigente;

**Art. 4:** Di mantenere valide le candidature pervenute fino all'entrata in vigore del presente decreto di proroga;

**Art. 5:** Di posticipare la data indicativa di inizio delle attività oggetto del bando al mese di maggio 2025;

**Art 6:** Restano invariate le altre disposizioni contenute nel bando di selezione.

Il presente Decreto è immediatamente esecutivo.

Venezia,

La Vice- Direttrice

Prof.ssa Patrizia Canton

f.to digitalmente ex art.24 Dlgs 82/2005 (CAD) e ss.mm.ii.

VISTO: IL RESPONSABILE DEL PROCEDIMENTO AMMINISTRATIVO  
LA SEGRETARIA DEL DIPARTIMENTO: Sonia Barizza



Firmato digitalmente da  
Patrizia Canton  
Data: 12.02.2025  
09:41:55 CET  
Organizzazione:  
UNIVERSITA' DEGLI  
STUDI DI  
VENEZIA/00816350276



Research fellowship on “Chemical valorization of bio-based molecules from biowaste” - 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 “Chemical valorization of bio-based molecules from biowaste”, SSD: CHEM-05/A, GSD: 03/CHEM-05, project PRIN 2022 titled REWIND - Re-Evaluating Waste to INcrease Development: Catalytic upgrading of bio-based building blocks for a new chemical circular economy”, COD. 20223ARWAY -, CUP H53C24000700006, tutor and principal investigator: prof. Maurizio Selva.

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 design of innovative chemical processes is crucial for the conversion of natural raw materials into chemicals in alternative to those of fossil origin. Basic research is therefore necessary to conceive novel synthetic transformations of simple bio-based feedstocks (primary building blocks, PBBs).*

*The present project will not involve fractionation or manipulation of biomass to obtain PBBs but will focus on the use of PPB that are already available on a large scale through established processing methods of biomass, especially from residual biomass/biowaste. Among bio-based molecules, the following will be mostly investigated: i) glycerol and its derivatives to achieve either cyclic carbonates and allyl esters, via multiple sequences of dehydration, insertion and transesterification; ii) ferulic acid (or related caffeic acid) to achieve C–H functionalized derivatives via CO<sub>2</sub> insertion; iii) bio-based phenols or vanillin to achieve the corresponding nitroaromatics and their hydrogenated products (amines) via sustainable protocols including unconventional media (CO<sub>2</sub>, ionic liquids, micellar environments); iv) terpenes or (poly)unsaturated fatty acids to obtain cyclic organic carbonates*

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 Master Degree in Chemistry or Industrial Chemistry, or related disciplines.

Preferred fields of specialization are:

- 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;



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.

**Duration of contract:** 12 months (approximately starting: in April 2025)

**Stipend:** The research fellowship amounts to 24.320,38 Euros per year, including taxes and social charges.

**Deadline for submission of applications: March 10<sup>th</sup> 2025, 12.00 noon.**

**Please note that the University is closed for Christmas holidays from 24/12/2024 to 06/01/2025.**

#### **How to apply:**

Candidates should 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](#))
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. Declaration on availability to held the interview in remote ([Link](#)) to be send via email at the following address: [ricercar.dsmn@unive.it](mailto:ricercar.dsmn@unive.it);
7. All documents, qualifications and publications relevant for the selection procedure (please, see the notice [link](#)).

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

#### **How to submit your application**

Applications should be submitted by the online procedure, available on the notice webpage ([link](#))

**Or submit here:**

<https://apps.unive.it/domandeconcorso-en/accesso/dsmn-ar-prin-selva>

#### **By inserting their Italian Tax Code.**

Foreign citizens not yet in possession of the Italian Tax Code can use the following link

<https://apps.unive.it/utills/cf> to obtain a temporary one and be able to proceed with the request.

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 March 10<sup>th</sup> 2025.

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.

### Evaluation

Up to 100 points, specifically:  
For qualifications, publications and possible tests, from 0 to 60;  
For interview, from 0 to 40.

### Selection procedure

Short-listed candidates will be invited for interview on

**March 20<sup>th</sup> 2025 at 10:00 a.m.**

**by remote at the link:**

**[meet.google.com/eba-ussm-gap](https://meet.google.com/eba-ussm-gap)**

The short-list of the candidates admitted to the interview, or any postponement, will be published on the University's webpage on March 17<sup>th</sup> 2025 ([link](#)). The interview will be held in remote only.

### 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](mailto: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



Firmato digitalmente da  
Maurizio Selva  
Data: 23.12.2024  
12:55:16 CET  
Organizzazione:  
UNIVERSITA' DEGLI  
STUDI DI  
VENEZIA/00816350276