



**UNIVERSITÀ
DI PADOVA**

Call for selection for admission to
Advanced training course in
“Microbial agents in bioremediation”
Academic year 2025/2026

Proposal approved by Commission for Lifelong Learning Courses on 05/05/2025

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ART. 1 ADVANCED TRAINING COURSE ACTIVATED

Public selections are called for admission to the advanced training course in "Microbial agents in bioremediation" activated for the 2025/2026 academic year, the main characteristics of which are detailed in the attached data sheet. This course unit entails the award of 5 ECTS credits.

ARTICLE 2 ADMISSION REQUIREMENTS AND INCOMPATIBILITY

2.1 Admission qualifications: in order to be admitted to an advanced training course, applicants must have the entry qualification detailed in the data sheet.

Other qualifications of the same level (according to the Italian Qualifications Framework - IQF available on the website <http://www.quadrodeititoli.it/index.aspx?IDL=1>) other than those specified in the attached sheets may also be assessed by the Examination Committee, provided that the student has a high school diploma allowing access to the university and a curriculum proving an adequate education consistent with the chosen course unit.

Any qualifications considered equivalent to those required for admission to the course units of this call by virtue of specific legislative provisions can only be assessed if the applicant has a high school diploma that allows access to university studies.

Those who earn the required qualification by the start date of the course unit may also participate in the selection. Self-certification of the degree must be received by the Postgraduate Office - Short Specialisation Degree and Continuing Education Unit by the beginning of the course unit classes.

ART. 3 PARTICIPATION AND PRE-REGISTRATION PROCEDURE

The pre-registration application must be completed via **web by 12.30 pm on the expiry date specified in the attached data sheet**, at the link <https://uniweb.unipd.it/>.

After the expiry date, the link will be deactivated and you will no longer be able to complete the pre-registration application. The service may be temporarily suspended for technical updating reasons.

For instructions on filling in the pre-registration application, see the file "Instructions for filling in the pre-registration application" published at the following link: <https://www.unipd.it/alta-formazione>.

Applicants with a qualification obtained abroad must refer to the provisions of Article 6 below of this call for selection.

In accordance with the Regulations for University Short Specialisation Degrees, Advanced Professional Course Units and Advanced Training Course Units of the University of Padua (Art. 24, paragraph 6), available at the following link: <https://www.unipd.it/regolamenti-didattica-studenti>, technical and administrative staff of the University of Padua may enroll in the Advanced Training Course under an additional quota reserved for university staff, up to 10% of the maximum number of admitted participants, in order to promote continuous and lifelong professional development.

Interested applicants must follow the pre-enrollment instructions provided in the document "Technical instructions for completing the application form," available at the link: <https://www.unipd.it/alta-formazione>.

Failure to meet the deadline for submitting the pre-registration application will result in exclusion from the selection.

The following must be enclosed with the pre-registration application, which is filled out online and includes the payment of the fee of €30.00:

1. Curriculum.
2. Any documents required for admission to the course unit.
3. Copy of a valid personal identity document (copy of a valid passport for non-EU citizens).

The pre-registration fee of €30.00 (including the €16.00 stamp duty paid online) is non-refundable, regardless of the activation of the course unit or the outcome of the selection.

The application is a declaration in lieu of certification of the qualification required for admission to the course unit. The University of Padua reserves the right to request confirmation from the institutions that issued the degrees.

All documents must be submitted in the form of a true copy of the original ("Declaration in lieu of self-certification of the qualification" available on the website: <http://www.unipd.it/corsi-alta-formazione>, under "Advanced Training Course Forms").

Pursuant to Article 40 of D.P.R. (Presidential Decree) no. 445/2000, as amended by Article 15 of Legge (Law) no. 183/2011, for dealings with public administration bodies and public service providers, certificates and affidavits are always replaced by declarations pursuant to Articles 46 and 47 of such decree.

Citizens of non-EU States lawfully residing in Italy may use the declarations pursuant to Articles 46 and 47 of D.P.R. (Presidential Decree) no. 445/2000 limited to status, personal qualities and facts that can be certified or attested to by Italy's Public Administration (see Article 3, paragraphs 2, 3 and 4 of D.P.R. (Presidential Decree) no. 445/2000).

The university administration accepts no responsibility in the event of the loss of communications due to inaccurate information on the applicant's residence, domicile and address, or due to failure/delay in communicating changes thereof, nor for any postal, electronic or telegraphic errors not attributable to administration.

Applicants with disabilities or specific learning disorders (SLDs) may take the course unit admission tests (where envisaged) with customised support, making an explicit request to the Student Service Office - Inclusion Unit.

To this end, interested candidates must:

- 1) Request the individualised test during the participation procedure at <https://uniweb.unipd.it>;
- 2) Upload documentation on the disability or SLD during the participation procedure at <https://uniweb.unipd.it>.

Applicants may be contacted by the Student Service Office - Inclusion Unit if certain required documents are found to be missing.

Applicants with a disability or specific learning disorders (SLDs) living abroad must upload the following documents during the participation procedure at <https://uniweb.unipd.it>: a certificate attesting to the state of disability or SLD issued in the country of residence together with a sworn translation in Italian or English.

Following this, an interview will be held with designated personnel and in a manner to be agreed upon in order to define the support required for the test.

For more information follow this link: <http://www.unipd.it/accoglienza-prove-ingresso>.

ART. 4 SELECTION PROCEDURE

The selection procedure will take place in accordance with the procedures and timing indicated for the course unit in the attached data sheet.

If there are no preferred prerequisites in the individual data sheets, the Committee shall assign precedence to the younger applicant in the event of a tie.

The course unit Organising Committee reserves the right to organise pre-selection aptitude tests if applications for admission considerably exceed the maximum number of places available.

ART. 5 SELECTION RESULTS, REGISTRATION OF WINNERS AND REPLACEMENTS

5.1 Publication of the ranking list: the ranking list will be made public from the date specified in the course unit data sheet by publication on the University of Padua website: <https://uel.unipd.it/master-e-corsi/>.

The publication of the ranking list has the value of official communication to the interested parties.

5.2 Enrolment of EU and non-EU applicants with a qualification earned in Italy: in order to complete registration, winning applicants in the ranking list must follow the registration instructions published at the following link: <https://www.unipd.it/alta-formazione>.

Those who have not completed their registration by the deadline (by completing the online registration and paying the registration fee) will be deemed to have withdrawn.

Applicants with a qualification obtained abroad must refer to the provisions of Article 6 below of this call for selection.

5.3 Replacements: any places that become available following express or tacit withdrawal or forfeiture of the right to register will be assigned in order of the ranking list until it is exhausted.

For this purpose, eligible candidates will be contacted directly by the Postgraduate Office – Short Specialisation Degree and Continuing Education Unit, which will provide all necessary information regarding the procedures to complete the registration by the deadline indicated in the course data sheet.

5.4 Registration fee – first and second instalments: the amount to be paid upon registration is the one indicated as the 'First instalment' under the 'Registration fee' section of the course data sheet. For payment of the second instalment, refer to Article 11.4 below.

ART. 6 PROCEDURE FOR APPLYING FOR PARTICIPATION/PRE-REGISTRATION WITH A QUALIFICATION EARNED ABROAD AND RULES FOR FOREIGN NATIONALS

Italians and foreign nationals having a degree earned from a foreign university equivalent to one of the degrees envisaged as a qualification for admission to the course unit may apply for pre-registration in the course unit for the 2024/2025 academic year.

Registration remains subject to the assessment of the administrative suitability of the degree held and the relative programme and skills acquired by the Postgraduate Office - Short Specialisation Degree and Continuing Education Unit, by the Organising Committee.

Registration remains conditional on academic recognition of the degree as well as passing the selection.

The Postgraduate Office - Short Specialisation Degree and Continuing Education Unit is available to provide information on foreign degrees at the following email address: formazionecontinua.lauream@unipd.it.

6.1 Participation/Pre-registration for applicants with foreign qualifications

You must complete the pre-registration application via **web by 12.30 pm on the expiry date specified in the attached data sheet**, at the link <https://uniweb.unipd.it/>.

After the expiry date, the link will be deactivated and you will no longer be able to complete the pre-registration application. The service may be temporarily suspended for technical updating reasons.

For instructions on filling in the pre-registration application, see the file "Instructions for filling in the pre-registration application" published at the following link: <https://www.unipd.it/alta-formazione>.

The following must be enclosed with the pre-registration application, which is filled out online and includes the payment of the fee of €30.00:

- 1) Curriculum.
- 2) Any degrees and documents required for admission to the chosen course unit: see the "selection" field of each individual data sheet.
- 3) Copy of the university diploma with declaration of value if already available at the time of pre-registration or certificate of comparability and verification issued by ENIC-NARIC centres.
- 4) Supplement diploma in the case of a qualification earned in a European Union country.
- 5) Any other documentation deemed useful for assessing the admissibility of the qualification obtained (European format curriculum, etc.).
- 6) Translation of the documents into Italian or English (if not already drafted in a working language).
- 7) Copy of a valid personal identity document (copy of a valid passport if a non-EU citizen).

Failure to meet the deadline for submitting the pre-registration application will result in exclusion from the selection.

The pre-registration fee of €30.00 (including the €16.00 stamp duty paid online) is non-refundable, regardless of the activation of the course unit or the outcome of the selection.

6.2 Registration for applicants with a qualification earned abroad: in order to complete registration, applicants must follow the registration instructions published at the following link: <https://www.unipd.it/alta-formazione>, by the deadline indicated in the call for selection.

Those who have not completed their registration by the deadline (by completing the online registration and paying the registration fee) will be deemed to have withdrawn.

With regard to the documentation required for registration and the residence permit of non-EU international students, see the information at <http://www.studiare-in-italia.it/studentistranieri/>, specifically the General Part and Part VIII of the circular.

ART. 7 ATTENDANCE, FORFEITURE, SUSPENSION, WITHDRAWAL, FALLING BEHIND AND FINAL CERTIFICATE

7.1 Attendance/forfeiture: students are required to attend at least 75% of the classes and traineeships unless otherwise specified in the individual data sheets, and must pass the final examination (if envisaged).

Any student who does not fulfil the minimum attendance requirements of the course unit forfeits their status as a student.

7.2 Suspension: in general, attendance obligations may not be suspended. Only in cases of prolonged illness (exceeding the maximum percentage of absence), pregnancy or maternity/paternity leave (at the request of the person concerned) may a suspension from the course unit be granted, subject to a request being submitted to the Postgraduate Office - Short Specialisation Degree and Continuing Education Unit. In this case it is possible to exceed the maximum number of students in the edition of the immediately subsequent academic year, subject to the activation of that edition.

Except in cases envisaged by law, interruption of participation in the course unit entails the non-recognition of any work already done.

7.3 Withdrawal: the student may submit a request for withdrawal at any time. This is irrevocable and must be manifested in a clear, explicit written document, submitted in the original using the "Withdrawal from studies" form available on the website <https://www.unipd.it/corsi-alta-formazione-modulistica>, under "Advanced Training Course Forms". Withdrawal entails the loss of status as a student. Upon withdrawal, the student is **not entitled to a refund of any fees paid**, while the obligation to pay any overdue fees remains.

7.4 Final certificate: a certificate of attendance will be issued at the end of the course unit. The awarding of the certificate is subject to the earning of the ECTS credits related to the academic activities envisaged and specified in this call for selection. In order to be admitted to the advanced professional course final examination, students must be up to date with the payment of any registration fees due.

ART. 8 PERSON IN CHARGE OF THE PROCEDURE

Pursuant to Article 4 of Legge (Law) no. 241 of 7 August 1990 (New regulations on administrative procedures and the right of access to administrative documents) and subsequent amendments, the Professor Paola Brun, is appointed as Person in Charge of the Administrative Procedure for the selection tests.

Applicants are entitled to exercise their right of access to the records of the selection tests according to the provisions of D.P.R. (Presidential Decree) no. 184 of 12 April 2006 (Regulation governing access to administrative documents pursuant to Chapter V of Italian Legge (Law) no. 241/90). The Director of the Postgraduate Office, Andrea Crismani, is appointed as the Person in Charge of the Administrative Procedure.

ART. 9 SPECIAL CASES

9.1 Activation of advanced training course: failure to reach the minimum number of enrolled students who have paid the registration fee in full, as specified in the individual data sheets, will prevent the activation of the course unit. In such cases any registration fees paid shall be refunded.

ART. 10 BENEFITS

10.1 Discounts: students with a disability recognised by the National Health Service Committees of between 66% and 100% or with recognition of a disability pursuant to Article 3, paragraph 1, of Legge (Law) no. 104 of 5 February 1992 are

totally exempt from the registration fee. However, they are still required to pay the pre-registration fee (€30.00), insurance (€6.50) and stamp duty (€16.00).

10.2 Discounts for Technical-administrative staff of the University of Padua: the registration fee for the university's technical-administrative staff is equal to 20% of the standard course registration fee

10.3 Summing of benefits: a student enrolled in a course unit may not enjoy more than one benefit in the same course unit and academic year.

ART. 11 NOTES AND WARNINGS

11.1 Any changes and additions to the content of this call for selection will be made known by means of: publication on the University of Padua website: <https://www.unipd.it/alta-formazione>.

11.2 All applicants are conditionally admitted to the selection procedure and attendance of the course unit. The university administration may at any time, with reasoned decision, order the dismissal of a student for failure to meet the prescribed requirements. This measure will be notified to the person concerned by registered letter with return receipt or PEC certified email.

11.3 If the documentation submitted reveals false statements, untrue information or the use of false documents, the applicant shall be automatically dismissed from the course unit and shall forfeit any benefits that may have been received, without prejudice to any criminal sanctions envisaged by the Italian Criminal Code and the specific laws on the subject (Articles 75 and 76 of D.P.R. (Presidential Decree) no. 445/2000). The aforementioned false statement shall result in exposure to action for damages by counterclaimants, and the registration fees paid by the interested party shall not be refunded.

11.4 Registration fees and refunds: the course unit envisage a registration fee divided into two instalments. The second instalment must be paid by 2nd November 2026.

Failure to comply with the aforementioned deadlines for payment of the second instalment shall entail the payment of a late fee of €21.00 up to 15 days late and €54.00 from the 16th day onwards.

Interested students will be reminded by email of the deadlines and arrangements for payment of the second instalment where applicable. Registrants are still required to pay regardless of the notice sent by email regarding the deadlines.

The registration fee is non-refundable except in the case envisaged in Article 9.1.

A student who has completed enrolment in a course unit covered by this call is not entitled to a refund of the fees paid.

11.5 Processing of personal data: the processing of the personal data provided by applicants and collected for the purposes identified in this call is done in compliance with the provisions of EU Regulation no. 679 of 27.04.2016 (General Data Protection Regulation, GDPR), see link <http://www.unipd.it/privacy>.

ART. 12 RELEVANT LEGISLATION

The course units referred to in this notice are governed by the Regulations for University Short Specialisation Degrees, Advanced Professional Course Units and Advanced Training Course Units of the University of Padua, which may be consulted at the following link: <https://www.unipd.it/regolamenti-didattica-studenti>.

For anything not specified in this call for selection, reference is made to current regulations.

FOR INFORMATION:

For any technical problems related to the online procedure:

Call Centre di Ateneo at 049 8273131.

telephone hours: Monday to Friday from 9 am to 5 pm; e-mail: callcentre@unipd.it.

For information on teaching:

Contact the academic office of the course unit at the number indicated in the relevant course unit data sheet under "For information".

For more information, please contact:

Postgraduate Office - Short Specialisation Degree and Continuing Education Unit at 049 8276373/6374 - Via Ugo Bassi 1 - 35131 Padua

(telephone hours: Monday to Friday from 10 am to 12.30 pm)

(help desk hours: Monday to Friday from 10 am to 1 pm, Tuesday also from 3 pm to 4.30 pm, Thursday from 10 am to 3 pm)

Email: formazionecontinua.lauream@unipd.it

This call for selection is available on the website <https://www.unipd.it/alta-formazione> and at the Postgraduate Office - Short Specialisation Degree and Continuing Education Unit - Via Ugo Bassi 1 - 35131 Padua.

For any other closures of the Postgraduate Office - Short Specialisation Degree and Continuing Education Unit, please consult the university website.

HEALTH, ENVIRONMENT AND TERRITORY DIVISION

Advanced training course in “Microbial agents in bioremediation”	
Division of reference	07 - Medical Sciences
Proposing party	Department of Molecular Medicine
ECTS credits	5
Duration	2 months
Language	English
Director	Paola Brun Department of Molecular Medicine 049 8272343 paola.brun.1@unipd.it
Deadlines	Registration application submission deadline: 17th September 2026 (12.30 pm, deadline for completing the online application) Publication of ranking list: from 22 nd September 2026 Registration deadline: by 25 th September 2026 Deadline for replacements: by 28 th September 2026
For information (teaching, selection tests, calendar, etc.)	Department of Molecular Medicine Via Gabelli, 63 - 35121 Padua Contact person: Paola Brun Telephone: 049 8278662 Email: paola.brun.1@unipd.it Website: https://uel.unipd.it/en/masters/miab-microbial-agents-in-bioremediation/
Registration fee	First instalment: € 392,50 Second instalment: € 150,50 (Total fee € 543,00)
	Registration fee for students with disabilities: €22.50
	Registration fee for Technical and administrative staff of the University of Padua: €126,60
Benefits	Study awards: two study awards may be granted depending on the short course’s available funds. Award criteria: deserving students based on the result achieved in the final paper.
Places available	Min: 10 Max: 25 Extra places for students with disabilities (recognised disability level of 66% or more): 5 Extra places for Technical and administrative staff of the University of Padua: 3
Learning objectives	The course aims to provide tools to develop innovative bioremediation strategies, addressing the needs of the eco-technological sector and promoting sustainable solutions for pollution mitigation. Participants will acquire knowledge in microbiology, specifically in the interactions between microorganisms and the environment (air, water, and soil) as well as with humans, and in synthetic biology, and will learn to apply this knowledge to various contexts of environmental pollution.

	Participants will be able to: use genetic engineering techniques to design engineered bacteria; analyze the processes involved in the decontamination of major environmental pollutants; assess the effectiveness and efficiency of bioremediation strategies; identify key parameters for optimizing bioremediation strategies; evaluate the ecological, ethical, and regulatory impact of synthetic biology.
Acquired professional skills and content summary	The course provides professional skills in eco-technological sectors, particularly in synthetic biology, biodecontamination, and bioremediation, addressing the emerging need for sustainable eco-technological solutions to counteract anthropogenic pollution. Acquired professional skills: - design and development of engineered microorganisms: ability to design engineered bacteria and other microorganisms for bioremediation using advanced genetic engineering and synthetic biology techniques. - development of biotechnological strategies for bioremediation: ability to design and implement innovative bioremediation solutions based on engineered microorganisms. - management of ecological, ethical, and regulatory implications: competence in evaluating the ecological and ethical impact of synthetic biology solutions in bioremediation, ensuring the adoption of responsible practices, with a focus on biosafety and social acceptability of the techniques used. - scientific and interdisciplinary communication: ability to effectively communicate the results of scientific research and bioremediation strategies to both specialized and non-specialized audiences in a clear and comprehensible manner; skills in writing detailed reports and scientific papers, and presenting the results and implications of synthetic biology in public or professional contexts. - continuous learning ability: competence in continuously updating one's knowledge, thanks to solid interdisciplinary training; ability to integrate new information and methodologies to address emerging environmental challenges.
Organisation	Mandatory attendance: 75% Schedule: lessons will be taught on zoom platform Teaching methods: remote learning; final examination. Exams: overall for all course units. Final examination: written/oral exam. Further information: students will take part in drafting an environmental bioremediation project, applying the synthetic biology knowledge acquired during the course
Location	Department of Molecular Medicine Via Gabelli, 63 - 35121 Padua
Start date	Start date: 01/10/2026 End date: 03/12/2026
Entry qualifications	Three-year university diplomas: Analytical Chemistry and Biology, Biology, Agro-Industrial Biotechnology, Agro-Industrial Biotechnology, Industrial Biotechnology, Chemistry, Economics of Agri-Food Systems and the Environment, Environmental Economics, Economics and Management of Agricultural Enterprises, Environmental Management and Protection, Environmental Education and Communication, Professional Educators, Geology for Environmental Protection, Geologist – Geo-Environmental Monitoring Technician, Natural Risk Management, Journalism, Animal Hygiene and Health, Computer Science, Computer Science, Medical Scientific Information Specialist, Engineering, Biomedical Engineering, Chemical Engineering, Materials Engineering, Environmental and Resource Engineering, Plastics Engineering, Computer Engineering, Computer Engineering, Computer and Automation Engineering, Computer and Automation Engineering, Environmental Technical Operator, Animal Production, Crop Production, Development, Redevelopment and Management of Green Areas, Materials Science, Media and Communication Studies, Materials Science and Engineering, Environmental Sciences, Forestry Techniques, Biotechnology Technicians, Eco-Compatible Development Technician, Environmental Measurement Technician, Environmental Health and Safety Technician for Workplaces, Food Technology, Pharmaceutical Technologies, Industrial and Materials Technologies, Environmental Assessment and Control.

	Bachelor's degrees: 1 – Biotechnology, L-2 – Biotechnology, L-6 – Geography, 8 – Civil and Environmental Engineering, L-7 – Civil and Environmental Engineering, 9 – Information Engineering, L-8 – Information Engineering, 10 – Industrial Engineering, L-9 – Industrial Engineering, L/SNT4 – Health Professions for Prevention, SNT/4 – Health Professions for Prevention, L-P02 – Technical Professions for Agriculture, Food and Forestry, L-P03 – Technical Professions for Industry and Information Technology, L-P01 – Technical Professions for Construction and Land Management, 12 – Biological Sciences, L-13 – Biological Sciences, L-Sc. Mat. – Materials Science, 17 – Economics and Business Management, L-18 – Economics and Business Management, 16 – Earth Sciences, 14 – Communication Sciences, L-20 – Communication Sciences, L-21 – Territorial, Urban, Landscape and Environmental Planning, L-25 – Agricultural and Forestry Sciences and Technologies, 20 – Agricultural, Agri-Food and Forestry Sciences and Technologies, L-26 – Food Sciences and Technologies, 21 – Chemical Sciences and Technologies, L-27 – Chemical Sciences and Technologies, 24 – Pharmaceutical Sciences and Technologies, L-29 – Pharmaceutical Sciences and Technologies, 26 – Computer Science and Technologies, L-31 – Computer Science and Technologies, 27 – Environmental and Nature Sciences and Technologies, L-32 – Environmental and Nature Sciences and Technologies, 40 – Animal Science and Animal Production Technologies, 30 – Geographical Sciences, L-34 – Geological Sciences, L-38 – Animal Science and Animal Production Technologies, 7 – Urban and Territorial and Environmental Planning Sciences.
Selection	Documents: curriculum; thesis; other qualifications that the applicant deems useful. Preferred prerequisites: professional experience in the field of biotechnology, microbiology, biochemistry or pollutant chemistry.
Broad criteria for the evaluation of qualifications and/or selection tests and their weighting	Curriculum: 70 (maximum score) Thesis: 10 (maximum score) Other qualifications that the applicant deems useful: 20 (maximum score) Overall score: min: 50 - max: 100