



**ANNEX 1 to the Call for Admission to n. 6 PhD positions for XL cycle a.y. 2024/2025 –
Information on courses and selection methods**

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**Dottorato di interesse nazionale in
CATALISI
(PhD COURSES OF NATIONAL INTEREST)**

Codice corso	DR223
Duration	3 years
Department	Chimica, biologia e biotecnologie
Positions	3 with scholarships upon the Horizon” UPCYCLING OF NdFeB MAGNETS IN THE EU FOR GREEN APPLICATIONS - NEO-CYCLE” (project ID 101138058 CUP F13C24000740006) project operational headquarters at the University of Pavia (Italy)
curricula	catalisi omogenea: meccanismi e applicazioni
Research project	YES, mandatory
Coordinator	Prof. Luigi Vaccaro

Degrees required for admission:

ALL among

- Specialist degree pursuant to D.M. 509/1999
- Master’s degree pursuant to D.M. 270/2004
- Pre-reform degree (before D.M. 509/1999)
- Foreign master degree

It is recommended to consult attachment 2, paying particular attention to the documentation to be attached in relation to the qualification required for admission (4. DOCUMENTATION TO BE ATTACHED).

Procedures for completing the selection procedure

The selection procedure will be carried out in the following ways

Assessment of qualifications and interview (in sixtieth: 30 + 30).

Minimum overall score from which candidates are judged to be eligible 36/60

Valuation of qualifications

The evaluation of the qualifications, for which a maximum score of 30 points is reserved, will concern the university training course as well as any further training courses and professional and research experiences and any scientific publications (it is advisable to attach and/or declare all qualifications achieved, complete with every element useful for evaluation, including, for the training courses, the individual profit grades achieved in the entire training course).

University course of study,

up to a **maximum of 10 points, recognising:**

to the grade of Master's degree: **up to a maximum of 6 points**, as assigned below:

Grade equal to 110-110/110 with honors: 6 points

Grade equal to 105-109/110: 5 points

Grade equal to 102-104/110: 4 points

Grade equal to 99-101/110: 3 points

Grade equal to 96-98/110: 2 points

Grade equal to 93-95/110: 1 points

Grade under 93/110: 0 points

At the Master thesis,

up to a maximum of 2 points per relevant degree thesis, recognizing:

- the thesis of excellent quality, in terms of scientific thickness, 2 points;
- the thesis of good quality, in terms of scientific thickness, 1,5 points;
- the thesis of sufficient quality, in terms of scientific thickness, 1 point.

To the Bachelor's Degree:

up to a maximum of 2 points, as awarded below:

Rating of 108 - 110/110 with honors: points 2

Rating of 99-107/110: point 1

Rating less than 99/110: point 0

For the single cycle degree, **up to a maximum of 8 points**, as assigned below:

Rating 108-110/110 with honors: points 8

Rating 106-108/110: points 7

Rating 103-105/110: points 6

Rating of 99-102/110: points 5

Rating 95-98/110: points 3

Rating 92-94/110: point 1

Rating less than 92/110: point 0

Further training paths and professional and research experiences,

Up to a maximum of 3 points for further training and relevant professional and research experience, recognising:

- for any professional experience in teaching and related to the doctoral course (tutoring, teaching support), point 1;
- for each professional experience in the field of scientific research and related to the doctoral path (research grant, scholarships for research projects, research collaboration, internship), point 1;
- for any further training related to the doctoral course (second level master's degree and/or graduate school, relevant specialization, Erasmus placement or related courses abroad, relevant qualification (state examination), point 1

Publications and congress activities,

Up to a maximum of 2 points for relevant publications, recognising:

- any publication of good quality in terms of scientific depth and editorial relevance, point 1.
- at each communication at congress 0.25 points.

Research project.

up to a maximum of 15 points, recognising:

- a research project of excellent quality in terms of scientific depth and research aptitude, 15 points;
- a research project of almost excellent quality in terms of scientific depth and research aptitude, 14 points;
- a research project of distinct quality in terms of scientific depth and research aptitude, 12 points;
- a research project of more than good quality in terms of scientific depth and research aptitude, 10 points;
- a research project of good quality in terms of scientific depth and research aptitude, 9 points;
- a research project of decent quality in terms of scientific depth and research aptitude, 7 points;
- a research project of sufficient quality in terms of scientific depth and research aptitude, 5 points;
- a research project of insufficient quality in terms of scientific depth and research aptitude, 0 points;

Evaluation of the interview.

The interview will focus on the project proposed by the candidates and on questions relating to the topics of the relevant curriculum and on the topics of the Horizon project "UPCYCLING OF NdFeB MAGNETS IN THE EU FOR GREEN APPLICATIONS - NEO-CYCLE".

The interview will focus on the project proposed by the candidates and on questions related to the topics of the curricula in which the doctorate is articulated.

The interview will also be aimed at verifying the candidate's research aptitude, willingness to carry out experiences abroad and scientific interests.

At the choice of the candidate, the interview can be taken in English.

For interviews held in Italian, the assessment of the knowledge of the English language is provided. As part of the interview, in addition to the discussion of the chosen topic and the illustration of the research project, the candidates who will take the interview in Italian, in order to verify the knowledge of English.

The interview will be held in **videoconference**.

The interview is reserved a **maximum score of 30 points**; the same will be considered exceeded due to the achievement of a **vote not less than 20/30**.

Interview evaluation criteria:

knowledge of the subject and clarity of presentation.

In particular, the scores will be awarded on the basis of the following overall evaluation graduation, due to the application of the above criteria:

30/30: more than excellent profit in relation to the above criteria

29/30: excellent profit in relation to the above criteria

28/30: almost excellent profit in relation to the above criteria

27/30: distinct profit in relation to the above criteria

26/30: almost distinct profit in relation to the above criteria

25/30: more than good profit in relation to the above criteria

24/30: good profit in relation to the above criteria

23/30: almost good profit in relation to the above criteria

22/30: more than sufficient profit in relation to the above criteria

21/30: sufficient profit in relation to the above criteria

20/30: almost sufficient profit in relation to the above criteria

19/30: insufficient profit in relation to the above criteria

18/30: poor profit in relation to the above criteria

17/30: seriously poor profit in relation to the above criteria

16/30: deficient profit in relation to the above criteria

15/30: seriously deficient profit in relation to the above criteria

10/30: more than seriously deficient profit in relation to the above criteria

Interview diary:

From November 27 2024 it will be published on the University website at <https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-di-ricerca/bandi-avvisi-emodulistica> and in the University's online noticeboard, a **notice** with which the **dates and times** of the meeting or any other communication concerning this selection.

This diary is valid as a formal invitation and will **not be sent** personal communications in this regard. The candidate's failure to show up for the selective tests (or failure to connect by the same on the day and time of the interview in case of telematic method) will be equivalent to an implicit renunciation of participation in the selection, whatever the cause.

ECONOMIA – ISTITUZIONI, IMPRESE E METODI QUANTITATIVI

Codice corso	DR203
Duration	3 years
Department	Economia
Positions	2 Including n. 1 with scholarship reserved for graduates from foreign universities n. 1 with scholarship
curricula	1 Economy and institutions 2 Economy and business 3 Quantitative methods for economics
Research project	YES, mandatory
Coordinator	Prof.ssa Figa' Talamanca Gianna

Degrees required for admission:

ALL among

- Specialist degree pursuant to D.M. 509/1999
- Master's degree pursuant to D.M. 270/2004
- Pre-reform degree (before D.M. 509/1999)
- Foreign master degree

It is recommended to consult attachment 2, paying particular attention to the documentation to be attached in relation to the qualification required for admission (4. DOCUMENTATION TO BE ATTACHED).

Selection procedure:

The selection procedure will be carried out according to the following methods:

Evaluation of qualifications and interview (out of sixtieth: 30 + 30).

The evaluation of qualifications will concern the university educational path, as well as any further training courses and professional and research experiences and any scientific publications.

The evaluation will also concern the candidates' preparation of a project research, of their choice, lasting three years, on one of the topics of the curricula in which they are articulates the doctorate relevant to the Course.

The minimum score required in the evaluation of qualifications to be eligible for the interview is equal to 15/30.

Before the interview takes place, it will be published on the University website at <https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-diricerca/bandi-avvisi-e-modulistica>, the list of candidates admitted to the interview, with the indication of the score obtained in the evaluation of qualifications.

Candidates who do not reach the aforementioned minimum score in the evaluation of qualifications, they will not be admitted to the interview.

The **interview** will focus on the topics of the curricula in which the doctorate is divided and will be also aimed at verifying the aptitude for research and the availability to carry out experiences abroad and the candidate's scientific interests.

To this end, the candidate is required to prepare a project proposal research to be presented together with the application to participate in the selection, which the candidate will proceed to explain during the interview.

The interview, at the candidate's choice, can be held in English.

For interviews taken in Italian, knowledge of the English language will be assessed.

The interview will be carried out via videoconference/presence.

The minimum score to pass the interview is **21/30**.

Eligibility is achieved with an overall rating equal to or greater than 36/60.

The Selection Committee, before starting the selection procedures, identifies the criteria and the methods for assigning test scores.

Interview diary:

From November 27 2024 it will be published on the University website at <https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-di-ricerca/bandi-avvisi-emedulistica> and in the University's online noticeboard, a **notice** with which the **dates and times** of the meeting or any other communication concerning this selection.

This diary is valid as a formal invitation and will **not be sent** personal communications in this regard. The candidate's failure to show up for the selective tests (or failure to connect by the same on the day and time of the interview in case of telematic method) will be equivalent to an implicit renunciation of participation in the selection, whatever the cause.

ENERGIA E SVILUPPO SOSTENIBILE (DOTTORATO INDUSTRIALE)

Codice corso	DR204
Duration	3 years
Department	Ciriaf
Position	1 with scholarship
Curricula	1 – Energy and environmental well-being 2 – Energy, agricultural and territorial resources
Research project	Not mandatory
Coordinator	Prof. Andrea Nicolini

Degrees required for admission:

ALL among

- Specialist degree pursuant to D.M. 509/1999
- Master's degree pursuant to D.M. 270/2004
- Pre-reform degree (before D.M. 509/1999)
- Foreign master degree

It is recommended to consult attachment 2, paying particular attention to the documentation to be attached in relation to the qualification required for admission (4. DOCUMENTATION TO BE ATTACHED).

Selection procedure:

Evaluation of qualifications and interview (out of sixtieth: 30 + 30).

The minimum score to pass **the interview is 21/30.**

Eligibility is achieved with an overall rating equal to or greater than 30/60.

The Commission will proceed, for the candidates who have passed the interview, to add the scores resulting from the evaluation of the qualifications and the interview, primarily for the purpose of verifying the achievement of suitability and, consequently, for the purpose of compiling the general ranking of merit. In the event of equal merit, the younger candidate prevails.

Below is the determination of the criteria and methods for assigning scores for the evaluation of qualifications and the interview.

Criteria for evaluating qualifications (out of thirty):

Minimum overall score from which candidates are judged suitable: **21/30**

The evaluation of qualifications concerns the university training course, as well as any further training courses and professional and research experiences and any scientific publications.

University educational path: up to a maximum of 18 points, recognizing:

- Degree grade: up to a maximum of 10 points, as follows:
 - Grade of 110/110 with honors: 10 points
 - Grade of 110/110: 9 points
 - Grade of 109/110: 8 points
 - Grade of 108/110: 7 points
 - Grade of 107/110: 6 points
 - Grade of 106/110: 5 points
 - Grade of 105/110: 4 points
 - Grade of 104/110: 3 points
 - Grade of 100/110 to 103/110: 2 points
 - Grade of 95/110 to 99/110: 1 point
 - Grade below 95/110: 0 points

For the degree thesis, **up to a maximum of 8 points** for relevant thesis, recognizing:

1. a degree thesis of excellent quality, in terms of scientific depth, 8 points;
2. a degree thesis of very good quality, in terms of scientific depth, 6 points;
3. for a degree thesis of good quality, in terms of scientific depth, 4 points;
4. a degree thesis of sufficient quality, in terms of scientific depth, 2 points.

Additional educational paths and professional and research experiences: up to a maximum of 7 points for additional educational paths and relevant professional and research experiences, recognizing:

1. for any relevant professional experience in teaching, up to one maximum of 1 point; in particular: - tutoring: 0.2 points every 6 months of tutoring activity; - contract professor: 1.0 points each year of the contract; - support teaching activity: 0.2 points every 6 months of support activity; - teacher in training: 0.2 points each course;
2. for any relevant professional experience in the field of scientific research, up to to a maximum of 4 points; in particular: - research grant: 1 point each year; for research grants not yet completed 0.5 points every 6 months; - scholarship for research projects: 0.3 points each year; - specialization school: 1.0 points each year; - relevant doctoral qualification: 3.0 points for each doctoral qualification;
3. for each further relevant training course, up to a maximum of 2 points; in particular: - professional qualification: 0.2 points for each qualification; - relevant training and/or specialization course: 0.2 points each course; - level II master's degree: 1.0 point for each master's degree.

Publications: up to a maximum of **5 points** for relevant publications, recognizing:

- for each publication in a refereed journal, 1.5 points;
- for each chapter publication in a book, 1.0 points;
- for each publication in conference proceedings, 0.5 points.

The overall evaluation of the qualifications, out of thirty, is accompanied by a judgement motivated.

Evaluation of the interview.

The interview will focus on questions posed to the candidates, after extracting them, on the topics of the curricula in which the doctorate is divided.

The interview will also be aimed at verifying the candidate's aptitude for research, availability to carry out experiences abroad and scientific interests.

At the candidate's choice, the interview can be held in English.

For interviews held in Italian, knowledge of the English language will be assessed.

The interview is reserved for a maximum score of 30 points; the same will be considered passed as a result of obtaining a grade of no less than 21/30.

Criteria for evaluating the interview: **knowledge of the subject and clarity** of presentation. In particular, scores will be assigned on the basis of the following graduation overall evaluation, as a result of the application of the above criteria:

- 30/30: excellent profit in relation to the above criteria
- 29/30: almost excellent profit in relation to the above criteria
- 28/30: more than distinct profit in relation to the above criteria
- 27/30: distinct profit in relation to the above criteria
- 26/30: almost distinct profit in relation to the above criteria
- 25/30: more than good profit in relation to the above criteria
- 24/30: good profit in relation to the above criteria
- 23/30: almost good profit in relation to the above criteria
- 22/30: more than sufficient profit in relation to the above criteria
- 21/30: Sufficient profit in relation to the above criteria
- 20/30: Insufficient profit in relation to the above criteria
- 19/30: Severely insufficient profit in relation to the above criteria
- 18/30: Poor profit in relation to the above criteria
- 17/30: Severely poor profit in relation to the above criteria
- 16/30: deficient profit in relation to the above criteria

15/30: Profit severely lacking in relation to the above criteria

Interview diary:

The interview will take place via videoconference (the link will be communicated together with the composition of the Selection Committee and the date of the interview).

From November 27 2024 it will be published on the University website at <https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-di-ricerca/bandi-avvisi-emodulistica> and in the University's online noticeboard, a **notice** with which the **dates and times** of the meeting or any other communication concerning this selection.

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