ANNEX 1 to the Call for Applications for 1 position in the PhD program of national interest in <u>CATALISI E ENERGIA</u> (DIN) for the 41st cycle of the academic year 2025/2026 Course information and selection procedures

Course code	DR226
Duration	3 years
Places	1 with scholarship, financed by the funds of the "Programma Regionale Basilicata FESR FSE+ 2021-2027" Priorità 7 ESO 4.7 Azione 7.4.7.H, entitled " Pro-atropisomeric systems for asymmetric catalysis and chiral recognition"
Curricula	1. HOMOGENEOUS CATALYSIS: MECHANISMS AND APPLICATIONS 2. HETEROGENEOUS CATALYSIS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS 3. BIOCATALYSIS 4. NEW TECHNOLOGIES FOR CATALYSIS 5. RENEWABLE ENERGY 6. ENVIRONMENT AND CULTURAL HERITAGE 7. PERSONALIZED MEDICINE INNOVATIVE PHOTORESPONSIVE MATERIALS
Research project	YES mandatory
Coordinator	Professor Luigi Vaccaro

Degrees required for admission

Specialist degree pursuant to Ministerial Decree 509/1999, Master's degree pursuant to Ministerial Decree 270/2004, Degree according to the system prior to the entry into force of Ministerial Decree 509/1999: **ALL**

How to complete the selection procedure

The selection process will be conducted according to the methods described below. At the end of the tests, separate rankings will be drawn up, one for each topic, as detailed above.

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

The evaluation of qualifications will take into account the university education as well as any additional educational paths and professional and research experiences and any scientific publications.

The evaluation will also include the candidates' development of a research project to be developed over the three-year period on one of the topics of the doctoral curricula and on the topics indicated in the agreements with companies for Ministerial Decree 630 funding.

The evaluation of qualifications will be considered passed by obtaining a score of no less than 18/30.

Before the interview, the list of candidates admitted to the interview, along with their qualification scores, will be published on the University website at https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-di-ricerca/bandi-avvisi-e-modulistica.
Candidates who do not achieve the aforementioned minimum score in the qualifications assessment will not be admitted to the interview.

The interview will be considered passed if the candidate achieves a score of no less than 18/30.

Minimum overall score from which candidates are deemed suitable 36/60

The interview will be held via video conference

The interview will focus on the topics of the doctoral curricula and on the presentation of the research project.

The interview will also assess the candidate's aptitude for research, willingness to undertake research experiences abroad, and scientific interests. To this end, the candidate is required to develop a research project proposal, which must be submitted along with the application, and which the candidate will present during the interview.

The interview may, at the candidate's discretion, be conducted in English. For interviews conducted in Italian, proficiency in the following language will be assessed: ENGLISH

<u>Valuation of securities</u> .

The qualifications submitted by candidates will be evaluated according to the following criteria and scoring methods for the evaluation of qualifications, for which a **maximum score of 30 points is reserved:**

<u>University education path</u> ,

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

<u>for the Master's Degree grade</u> : **up to a maximum of 6 points** , as assigned below:
Grade 110-110/110 with honors: 6 points
Score equal to 105-109/110: 5 points
Score equal to 102-104/110: 4 points
Score equal to 99-101/110: 3 points
Score equal to 96-98/110: 2 points
Score equal to 93-95/110: 1 point
Score lower than 93/110: 0 points

For candidates who obtain the qualification required for admission by October 31, 2024, for whom it is not possible to evaluate the degree grade, the Commission will evaluate <u>the curricular average</u> of the exams taken, awarding **up to a maximum of 6 points** , according to the scheme relating to the degree grade previously reported; to this end, the curricular

average grade, multiplied by 110 and divided by thirty, is rounded to the nearest whole number:

Average curricular grade equal to 104-110/110: 6 points
Average curricular grade equal to 102-103/110: 5 points
Average curricular grade equal to 99-101/110: 4 points
Average curricular grade equal to 96-98/110: 3 points
Average curricular grade equal to 93-95/110: 2 points
Average curricular grade equal to 90-92/110: 1 point
Average curricular grade lower than 90/110: 0 points

To the Master's thesis,

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

- for a thesis of excellent quality, in terms of scientific depth, 2 points;
- for a good quality thesis, in terms of scientific depth, 1.5 points;
- for a thesis of sufficient quality, in terms of scientific depth, 1 point.

For candidates who obtain the qualification required for admission by October 31, 2025, the thesis will be evaluated according to the above criteria, only if produced in a final version with the Supervisor's signature or equivalent method.

At the Bachelor's Degree grade :

up to a maximum of 2 points , as awarded below:
Grade equal to 108 - 110/110 with honors: 2 points
Score equal to 99-107/110: 1 point
Score lower than 99/110: 0 points

For the single-cycle degree , **up to a maximum of 8 points** , as assigned below:
Grade 108-110/110 with honors: 8 points
Score equal to 106-108/110: 7 points
Score equal to 103-105/110: 6 points
Score equal to 99-102/110: 5 points
Score equal to 95-98/110: 3 points
Score equal to 92-94/110: 1 point
Score lower than 92/110: 0 points

Further training courses and professional and research experiences ,

up to a maximum of 3 points for further relevant training and professional and research experiences , recognizing:

- for any professional experience in the teaching field and relevant to the doctoral program (tutoring, teaching support activities), 1 point;

- for any professional experience in the field of scientific research and relevant to the doctoral program (research grant, scholarships for research projects, research collaboration, internship), 1 point;

- for any additional training courses related to the doctoral program (second-level master's degree and/or specialization school, relevant specialization, Erasmus placement or related courses abroad, relevant qualification (state exam)), 1 point.

Publications and conference activities ,

up to a maximum of 2 points for relevant publications, recognizing:

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

Research project ,

up to a maximum of 15 points , recognizing:

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

Interview evaluation .

The interview will focus on the project proposed by the candidates and on questions related to the curricula of the doctorate.

The interview will also assess the candidate's aptitude for research, willingness to undertake research experiences abroad, and scientific interests.

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

For interviews conducted in Italian, English language proficiency will be assessed. During the interview, in addition to discussing the chosen topic and presenting the research project, candidates who are interviewed in Italian will be asked to read and summarize a scientific passage selected by the commission to assess their English proficiency.

The interview will be conducted via **videoconference** , according to the procedures set out in the notice that will be published on the University website.

The interview has a **maximum score of 30 points** .

The Commission establishes the following criteria for evaluating the interview:
knowledge of the subject and clarity of exposition.
In particular, scores will be awarded on the basis of the following overall evaluation ranking, as a result of the application of the above criteria:
30/30: excellent profit
29/30: excellent profit
28/30: almost excellent profit
27/30: more than distinct profit
26/30: distinct profit
25/30: almost distinct profit
24/30: more than good profit
23/30: profit Good
22/30: almost good profit
21/30: satisfactory profit in relation to the above criteria
20/30: more than sufficient profit
19/30: sufficient profit
18/30: barely sufficient profit
< 18/30: insufficient profit

Interview diary :

Starting **October 13, 2025 A notice** will be published on the University website at https://www.unipg.it/didattica/percorsi-post-laurea/dottorati-di-ricerca/bandi-avvisi-e-modulistica and on the University's online noticeboard. This **notice** will communicate **the dates and times of the call,** as well as any other communications regarding this selection process. This notice serves as a formal call **, and no personal communications will be sent.**

Failure to appear for the selection tests (or failure to connect on the day and at the time of the interview in the case of online interviews) will constitute an implicit waiver of participation in the selection process, regardless of the reason.