CALL OF SELECTION FOR RESEARCH PHD COURSES
XXXVIII CYCLE

Academic Year 2022/2023

APPLICATION DEADLINE: 29th NOVEMBER 2022 AT 01 pm (Italian time)

ARTICLE 1 - PURPOSES AND GENERAL PROPOSITIONS

Public selections are held at the University of Parma, for qualifications and exams, for supplementary admission to the XXXVIII cycle – academic year 2022/2023 of the PhD courses of research listed below:

1. **ECONOMICS & MANAGEMENT OF INNOVATION AND SUSTAINABILITY -EMIS** (in agreement with University of Ferrara and Cattolica del Sacro Cuore)
2. **PHYSICS**
3. **INDUSTRIAL ENGINEERING**
4. **NEUROSCIENCES**
5. **MATERIALS SCIENCE AND TECHNOLOGY** (in agreement with C.N.R. - The Italian National Research Council)
6. **FOOD SCIENCE**
7. **JURIDICAL SCIENCES** (in agreement with University Modena e Reggio Emilia)
8. **INFORMATION TECHNOLOGIES**

The PhD Research programmes have a three-year duration starting from 1st January 2023. There are no places without a scholarship.

For each of the above-mentioned courses, research topics, vacancies, admission requirements, procedures and criteria for the selection and assessment of candidates are specified in the attached Forms. Forms are integral part of this announcement.

Available positions shall be assigned based on the score lists as per Article 9 of this public Announcement and available on the page [http://www.unipr.it/dottorati-iscrizione](http://www.unipr.it/dottorati-iscrizione).

In case of funds transfered by public or private institutions, the availability of scholarships, research grants, interships or other forms of similar support may increase, including positions available compared to what already provided by in this call. Regardless of the chance, everything shall happen without any disruption or alteration to the current terms and conditions of submission.

This announcement is to be considere an official notification.

Any change and integration will be published exclusively on the web site [http://www.unipr.it/dottorati-iscrizione](http://www.unipr.it/dottorati-iscrizione).

This call is available in Italian and English in accordance whit Italian laws and University of Parma Regulations.

ARTICLE 2 - ADMISSION REQUIREMENTS

Regardless of age and origin, in the selection may participate all candidates in posses of:
• "laurea magistrale" or "laurea specialistica" [Italian academic degree equivalent to a Master's Degree] or "laurea" attained pursuant to the university degree system applicable before Italian Ministerial Decree No. 509 of 3 November 1999, came into force, as amended with Italian Ministerial Decree No. 270 of 22 October 2004, as well as second-level degrees equivalent to the above;
• a second level academic qualification issued by institutions belonging to the AFAM sector (Higher Education for Art, Music and Dance);
• an academic degree attained abroad. The degree will have to be comparable to an Italian one that grants admission to the PhD programme, in terms of length, level and if possible of field of education. This degree must also be recognized as eligible even for the sole purpose of admission to the selection, as pursuant to Article 3 below.

The attached Forms, which are integral part of this announcement, specify for each PhD course the type of qualifications or additional requirements necessary for the admission in the selection.

Candidates that already hold a research doctoral degree may be admitted to attend, granted that the selection tests are sat and passed, another research doctorate program without any scholarship coverage.

In compliance with the terms set in Article 5, undergraduate students may also apply for admission, granted that they attain the necessary degree within 21 Dicembre 2022 (enrolment deadline), under penalty of exclusion. These candidates shall have to communicate to "UO Formazione Post Lauream – Dottorati di Ricerca" (dottorati@unipr.it) date, final mark attained and the University that issued the relevant academic degree by sending a self-certification, dated and hand-signed, with a copy of a valid identification, within 22 Dicembre 2022.

**ARTICLE 3 – ACADEMIC DEGREE ATTAINED ABROAD**

The eligibility of foreign academic degrees shall be verified by the Examination Board in charge of admission, in compliance with the applicable legislation in Italy and in the Country where the academic degree has been issued, as well as in compliance with any international agreements or treaties concerning the recognition of educational degrees for higher education.

Applying for admission entails an implicit request to assess the eligibility of the academic degree attained abroad. To this end, candidates must submit the following documents to their application:

a) a certificate of their academic degree listing the exams sat and passed with the relevant mark, specifying the minimum and maximum vote provided for in the educational system of your country. EU citizens may use a statutory declaration in lieu of the certificate, pursuant to Italian Presidential Decree No. 445/2000 as amended;
b) English translation of the certificate as per item a), signed by the candidate under their responsibility, only where this document is not originally in English;
c) any other documents useful to assess the academic degree eligibility (Diploma Supplement, etc.)

Candidates in possession of a foreign degree that have passed the selection, shall be admitted conditionally until they submit the "dichiarazione di valore in loco del titolo posseduto" [declaration of local value of the degree held] along with the certificate of the relative exams and marks, translated and certified by the Italian diplomatic representation in the Country where the degree was attained. The declaration of value shall certify that the held degree is valid, in the Country where it was issued, for admission to an academic programme similar to a PhD Research.
If the above declaration of value is not available at the time of enrolment, a document shall be provided giving evidence that the application for its issue has been submitted to the competent diplomatic representation and it shall be turned in as soon as possible. As an alternative to the declaration of value, a Diploma Supplement can be attached issued by higher education institutions belonging to the EU or a certificate of comparability issued by CIMEA Center (further information at [https://www.cimea.it/EN/pagina-attestati-di-comparabilita-e-verifica-dei-titoli](https://www.cimea.it/EN/pagina-attestati-di-comparabilita-e-verifica-dei-titoli)).

Candidates in possession of a foreign qualification are invited to observe the provisions of the Ministerial Circular “Procedures for entry, stay, enrolment of international students and the related recognition of qualifications, for higher education courses in Italy valid for the academic year 2022-2023” [https://www.studiare-in-italia.it/studentistranieri/moduli/2022/Circolare_2022_2023.pdf](https://www.studiare-in-italia.it/studentistranieri/moduli/2022/Circolare_2022_2023.pdf). In fact candidates will have to complete the pre-enrolment procedures using the UNIVERSITALY portal. Admission remains subject to the suitability assessment of qualifications by academic bodies for the sole purpose of admission, as well as for the passing of entrance exams, where required.

**ARTICLE 4 – QUALIFICATIONS**

In order to be admitted to any of the PhD Research Programme dealt with in this call, candidates shall submit the following mandatory documentation:

| 1 | **Curriculum Vitae et studiorum** | Preferably in European format and including a brief description of the degree thesis topic. It may also be written in English. Check in the respective course Form if any specific action is required (language and/or format). |
| 2 | **Abstract of the second cycle Master’s degree thesis** | Abstract of the second cycle Master’s degree thesis. Undergraduates applicants may submit the draft of the thesis approved by their supervisor (Abstract/draft: approximately 10,000 characters including spaces). |
| 3 | **Documents attesting that the applicant holds both the necessary first and second level degrees.** | 1. university that has awarded the degree 2. type of degree awarded, whether second level master degree/single cycle second-level degrees/pre-reform degree 3. denomination of the degree awarded 4. “Classe di Laurea” (only for degree awarded in Italy) 5. date in which the degree has been awarded 6. final mark 7. academic transcript of records, including the full list of the exams taken and the related marks |
| 4 | **Graduate candidates:** | 1. applicants granted of the above academic degrees by Italian Universities must submit a self-certification, duly filled and signed, attesting the completion of their studies (both the first and second level master’ degree); 2. applicants awarded by the above academic degrees by other foreign Universities must submit a certificate attesting the completion of their studies (i.e. first and second level master’ degree), and the transcript of records. The latter must include the full list of the exams taken and the related marks. In case of documents drawn up in languages other than Italian or English, the official translation in Italian/English of both the documents is required. Only official translations issued by the University which has awarded the degree or by other competent authorities in the State in which the title has been awarded shall be accepted. Applicants holding a degree awarded in the other EU Member States can submit a self-certification (see previous point) or the Diploma Supplement as an alternative to the certificate. |
|   | For applicants who are yet to obtain their second cycle degree by the date they apply: | To calculate the **media ponderata** (the weighted average mark, only for graduate students enrolled in Italian Universities):

1. Multiply the marks obtained by the number of CFUs (please, note that 30 with honours is regarded as 30);
2. Add all the obtained results;
3. Divide the result by the total of the CFUs. |
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<td>Academic transcript of records, including the full list of the exams taken and the related marks. Please also indicate the related CFU or ECTS (if provided by education system of the Country in which the degree will be awarded). The record must include the &quot;media ponderata dei voti degli esami&quot; (Weighted Average Mark WAM), only for graduate students enrolled in Italian Universities</td>
<td>Preferably according to the format attached to this selection call. It can also be written in English. Check in the Forms of the individual courses if there are any specific requirements (language and/or format).</td>
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<td>Research Project (when required by the course specific Form)</td>
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According to current legislation, the University must reject certifications issued by other Italian public administrations. Therefore, academic degrees must be attested only using self-certification if awarded by Italian public universities.

At [http://www.unipr.it/dottorati-iscrizione](http://www.unipr.it/dottorati-iscrizione) applicants may download a self-certification fac-simile to be used in the case the academic qualifications attained in other Italian public universities.

After verification, if the qualifications do not comply with the requirements, pursuant to art. 2, or the declarations produced are not truthful, the University may dispose for the exclusion from the selection or from the PhD course, with a provision of the Rector, at any time, even after enrolment and the beginning of the course.

For each PhD Research programme, in the attached Forms are also specified the additional documents required. Candidates shall attach copy of such qualifications during the online application, for assessment purpose. **All titles written in a language other than Italian will have to be translated into English, otherwise they will not be evaluated.**

All documentation will have to be submitted in accordance with Article 5 below.

**ARTICLE 5 - APPLICATIONS ADMISSION**

Applications for selection shall be submitted from 14 November 2022, 12 pm (Italian time) to 29 November 2022, 1pm (Italian time, final deadline). Candidates must apply online only, under penalty of expulsion, following the procedure at [https://unipr.esse3.cineca.it/Home.do](https://unipr.esse3.cineca.it/Home.do). Please remember to have a valid ID and proof of tax identification number at hand during the procedure.
The candidate shall:
- Connect to https://unipr.esse3.cineca.it/Home.do;
- Register by entering the required data (or login, if already registered);
- Click on menu > REGISTRAR'S OFFICE > ADMISSION TEST > ADMISSION TO RESTRICTED DEGREE COURSES – DEGREE WITH ADMISSION IN CHRONOLOGICAL ORDER > select the desired PhD Course;
- Proceed with completing the online application, submitting the required information and attaching the necessary documents as required in Article 4 (in addition to the additional ones listed in the Forms). Please remember the documents must be in pdf format (maximum size limit of 5Mb for each attachment) and the file will have to state the name of the candidate (for example: surname_namefile.pdf). It is also mandatory to attach copy of the ANNEX A “ADMISSION TO RESEARCH DOCTORATE COURSES” and one of a valid ID of the applicant.

To properly upload the documents, please follow the instructions http://www.unipr.it/dottorati-iscrizione.

The form ANNEX A, compulsorily loaded during the online application procedure, will have to state the candidate’s personal information, address, phone number, email address as well as citizenship for the purpose of the selection. Furthermore it will have to state:
- the exact denomination of the desired selection;
- the chosen Research Topics, selected among those indicated in the courses attached Forms and with relating research project if required;
- the reserved position, if any, for which they intend to apply;
- the type of degree attained (or to be attained), the name of the University issuing the degree, the graduation date and the final mark.

It is also possible to indicate, in the appropriate section, an expression of interest in the assignment of one or more Scholarships with "SPECIFIC TOPIC", as specified in the following art. 7.

To this end, candidates shall provide a certificate stating that the submitted documentation is identical to its original, under their responsibility and pursuant to Articles 46 and 47 of Italian Presidential Decree No. 445 of 28 December 2000, aware of forfeiture of any benefits obtained, as well as of the criminal penalties provided for by Articles 75 and 76, respectively of the above Decree, for false declarations and for forgery or use of forged documents.

The candidates with online application declare:

a) to grant attendance to the PhD programme as instructed by its Academic Board;
b) that they are not enrolled in Postgraduate Schools of Specialization or in Undergraduate or Graduate courses of studies of any kind. Should they be enrolled in any of the above courses, they undertake to suspend attendance/enrolment, or they declare to be enrolled in the Postgraduate Medical School of Specialization at the same educational center (in the latter case, a copy of the authorization given by the School of Specialization Board must be attached);
c) that they do not hold a research doctor qualification. If they already hold a research doctor qualification, they will have to state the PhD title in their possession, the institution that issued the title and the date of attainment (in the latter case, the winner of the selection shall not receive any scholarship, pursuant to Article 6 of Italian Law No. 398/1989 and to Article 5 of the University Regulations for the attainment of the PhD research title);
d) that they have never benefited or are not currently benefiting from any scholarship for a PhD programme.
Candidates suffering from impairments or learning disabilities may express their specific needs, by filling in form A38-1 or form A39-2, which can be downloaded from the website https://www.unipr.it/didattica/info-amministrative/modulistica, and by including such form in their application for registration. The form, filled in and signed, shall be sent via e-mail to the address: dottorati@unipr.it.

At any time, within the call deadline, candidates shall be able to access their applications to integrate or edit the data and attachments inserted.

The submission of the application to the University shall be completed automatically at the end of the procedure. Therefore, candidates do not have to deliver or send any printed material to the offices. Through the online procedure candidates must also attach the documents proving the qualifications required for the admission to the desired PhD course.

**Online submission is the only means of presentation accepted for the qualifications, no other shall be accepted.**

Please note that at the end of the online admission procedure, no payment slip will be issued as there is no admission fee for the selection.

Applications that at 1 pm (Italian time) of 29 November 2022 are incomplete and/or lack the required attachments, will be excluded.

Applications that are incomplete, irregular or not submitted in the manner and within the terms specified in this article will not be accepted.

The deadline is peremptory, at its expiration the informatic system will no longer allow the submission or editing of any application. The informatic system will moreover work as means of certification for the time of submission and deadline expiration.

In any case, additions to the documentation attached to the application will not be admitted after the deadline of the call, with the exception of those requested by the University.

Candidates applying for more than one PhD programme selection shall submit more than one application, attaching the required documentation to each one of them.

In case the attached forms require research topics for the chosen Doctorate program, **candidates shall set forth the specific topic chosen in their application for admission in Annex A.**

Candidates already in possession of login credentials for the https://unipr.esse3.cineca.it/Home.do application will have use the latter. In case of loss or prolonged inactivity of the access credentials, it is possible to proceed with the password recovery, following the procedure indicated. **Please note that if you have previously participated, even once, in a selection procedure or attended a course at the University of Parma you are already in possession of the credentials and will not be able to register again with the same personal data.** It will therefore be necessary to reactivate the credentials, in the manner described.

Candidates are strongly encouraged to complete their application well in advance of the deadline, in order to avoid any possible crashing of the informatic system and subsequent failure of the submission process – due to the high number of last-minute applicants.

**It is not possible to guarantee the fulfillment of requests to recover/duplicate the access credentials to our informatic system within 5 days of this call deadline.**
It is the candidates’ responsibility to verify the correct conclusion of the procedure and the correct loading of all the documents. No complains will be accepted for any malfunctions of the informatic system due to overload close to the deadline.

ARTICLE 6 – RESERVED POSITIONS

Reserved positions are available in those PhD courses that have expressed provision for it. Be the candidates with foreign degrees, holding scholarships founded by foreign countries, holding scholarships in the field of specific programmes with international mobility or benefitting from EU/international collaboration projects, they may compete for the positions. In this case special separate selections will be held though.

Any reserved position is stated in the attached Forms of each PhD programme, which are an integral part of this call.

Reserved positions may also be provided to employees of companies having agreements in place for “Industrial PhD Programmes”.

The candidates intending to apply for the above reserved positions, when provided for in the Forms of the courses, must attach alongside ANNEX A, additional documents to their application for selection, more precisely:

- Candidates under specific international mobility programmes: in addition to the documents listed in the Form for the specific PhD program, they shall attach a certificate stating that they are holders of a scholarship or similar support provided as part of a specific international mobility programme.

For reserved positions, the Examination Board shall prepare a separate ranking in accordance with the category of the reserved positions.

The positions that are reserved to holders of scholarships funded by foreign Countries; pertaining to specific international mobility programmes; reserved to research fellows or employees of companies having industrial PhD agreements; reserved for high educational and research internship contracts and that have remained vacant shall not be awarded to other candidates.

Should there be no winning candidates for positions reserved for graduates from foreign universities, the vacancies will be added to the general ranking of each research PhD course.

ARTICLE 7 - ADMISSION EXAMINATION

Admission shall consist on a comparative selection based on qualifications and possibly an oral test. The selection, intended to ascertain the candidate’s ability and aptitudes for scientific research, may consist, in addition to the evaluation of qualifications and/or of a research project, in a public oral test.

The oral exam will take place in the presence. Within the limits set by the individual course Forms, the oral exam may, at the request of the candidate, be taken remotely using the Microsoft Teams platform. Applicants are responsible for providing adequate audio and video equipment for the use this platform. Should the emergency epidemiology from COVID-19 undergo changes, the face-to-face oral exam provided for the specific course will be replaced with the remote one using the same platform.

The selection procedures and the assessment criteria for the admission to the PhD Programmes are described in the PhD Programme Tables in attachment and are integral part of the present Call for applications. Such
The publication on the web of a calendar shall amount to a formal notification for all purposes convening candidates for the exams, if any. Therefore, candidates shall present themselves, with any notice or communication whatsoever related to the admission exams, at the examination venue, on the day and at the time set forth in the Forms. Please note the candidates will have to exhibit a valid identification that has a photograph of the holder, issued by an official Public Administration, under penalty of exclusion.

Only and exclusively, if provided in the relative Form of the chosen PhD programme, the test may be held in a language other than Italian.

The Examination Board may award a total of 120 points. The attribution of points to qualifications and projects, including the minimum score required to be admitted to the oral test, is set forth in the Forms relating to the single PhD programme.

To qualify, a total score not lower than 70 points is required. The final score shall be the sum of the points obtained in the qualifications and in each oral test.

In case of scholarships linked to specific topics, during the oral test, the candidates will have the possibility to express their interest for one or more scholarships linked to the specific topics. The Examination Board will express a suitability assessment for the allocation of the scholarships linked to specific topics, taking into account specific skills, experiences and aptitudes of the candidates.

The expression of interest can be presented by filling in the dedicated section of Annex A and by confirming it during the oral test before the interview begins.

Candidates can view the results of the qualifications assessment, of each test and of the final ranking by accessing the reserved webpage of the online students' office services at https://unipr.esse3.cineca.it/Home.do. The results of the qualifications assessment will be displayed a few days before the date scheduled for the oral test.

**Special provisions for remote oral test:**

When provided for in the course Form, candidates intending to take the oral test remotely, must attach to the online application the form "DISTANCE ORAL EXAMINATION REQUEST FORM". The form will have to be filled and signed, specifying the e-mail address that the Examination Board should use for the video call. The candidate must be available at the provided personal address, on the day set for the oral test, in accordance with the calendar in the relating Form of the PhD programme, guaranteeing the use of a webcam to allow their identification. The Examination Board may choose together with the candidate a time for the beginning of the interview.

To take the distance Oral Test, candidates must connect to a Teams session using the link that will be sent to the e-mail they provided in the "DISTANCE ORAL EXAMINATION REQUEST FORM".

For identification purposes and under penalty of exclusion from the selection procedure, each candidate shall identify themselves, before the interview begins, by showing the same identification that has been attached to the selection application.
In the event a candidate fails to communicate their personal address, fails to connect, or is not available on the day and time agreed or fails to show a valid identification, pursuant to the previous paragraph, all these shall be ground to exclude them from the selection procedure. These causes of exclusion do not apply if the candidate, with a valid identification, presents themselves on the day set for the interview in order to sit for the oral exam “in person”.

Technical connection problems during the remote oral exam:
a) in the event that the connection problem concerns one or more committee members, the interview is postponed ex-officio to another date of which will be given appropriate and adequate publicity;
b) in the event that the connection concerns the candidate admitted to the interview, the committee may reasonably postpone the interview to another date, in compliance with the principles of non-discrimination and equal treatment between the candidates that will be given appropriate and adequate communication

The acceptance of any requests to take the oral exam at a distance received after the expiry of the competition will be judged discretionally by the Examination Board, taking into account the particular needs expressed by the candidate who may go to preclude the possibility of taking the oral examination in attendance.

The University of Parma shall not be responsible for any technical causes which prevent the oral interview from being carried out regularly.

At the end of the selection the Examination Board, will draw up a ranking for merit based on the final score obtained during the assessment of qualifications and oral test. The ranking shall be approved by Rector’s Decree.

The Examination Board shall be able to express a differentiated judgment for each individual position/scholarship also in relation to special skills required for conducting research on specific topics.

The Examination Board and the Academic Board are not bound by any options expressed by the candidates nor by any project presented at the time of the application.

ARTICLE 8 – EXAMINATION BOARD

Examination Boards shall be appointed by the Rector and composed in accordance with Article 5 of the Regulation concerning Research Doctorate degrees of the University of Parma.

The composition of the single Boards shall be published, before the expiry of the notice, on the University website: http://www.unipr.it/dottorati-iscrizione.

ARTICLE 9 - ADMISSION TO THE PROGRAMS (Final short-lists)

Successful applicants will be admitted to the PhD programme, after the approval of selection deeds, in line with the ranking list until all positions available are covered, without prejudice to the specific procedures for the awarding of the positions set out in Arts. 6 and 7 of this call, concerning reserved positions and scholarships dedicated to specific research topics.

For the purposes of admission to each PhD Programme, only the rankings published on the University website shall be valid. Candidates can consult them in the reserved area, by logging in with the same methods used to register at the selection https://unipr.esse3.cineca.it/Home.do.

The beneficiaries of scholarships on the basis of specific topics, awarded by European and international institutions or other forms of financial support in which the University of Parma is a partner, may be admitted
to the PhD courses. Provided they still perceive a scholarship or other form of financial support, they may participate in the selection procedures as described in the regulation of each programme.

The publication of the ranking on the website shall be the only official publications of the outcomes of the competitive selection and, therefore, no personal notifications shall be sent to the winning candidates.

In case a candidate ranks in a winning position in more than one short-list, he/she shall opt for only one Doctorate Program, concomitantly notifying his/her waiver of the other programs. The choice of the PhD program, carried out at the time of registration is final and you can not change it in any way.

Postgraduate students enrolled in a Medical School of Specialization at the University of Parma, who win the selection for a PhD programme, may be allowed to attend jointly both programmes. It shall be allowed granted that the students are in the last year of the School of Specialization at the time of enrolment in the PhD programme, in compliance with the deadlines set down in Article 10 below. Joint attendance shall be allowed also if compatible with the activities and commitment required by the same School and proved by an authorization issued by the School Board. The PhD Board shall resolve on any request for a reduction in the PhD programme, after assessing the research activities already carried out during the postgraduate medical career of the student, as certified by the postgraduate medical school of specialization and may grant enrolment directly to the second year of the PhD programme. In the year of joint attendance, the postgraduate student can not receive the PhD programme scholarship.

ARTICLE 10 – ACCEPTANCE OF THE POSITION AND MATRICULATION

The winning candidates will have to complete a pre-enrolment procedure EXCLUSIVELY ON-LINE, accessing the page “https://unipr.esse3.cineca.it/Home.do”. Candidates shall have time from 19 December 2022, 10 am (Italian time) to 21 December 2022, 12 pm (Italian time) by accessing the dedicated restricted area and clicking on Registrar’s office > enrolment.

OTHER MODALITIES, DIFFERENT FROM THE ONLINE PROCEDURE, SHALL NOT BE ACCEPTED.

Applicants who do not complete the enrolment procedure shall be considered as having tacitly refused their PhD position.

Before starting the online procedure, the applicant should keep at hand:

- A device connected to the Internet;
- A printer;
- A valid ID;
- The Tax Identification Number;
- SWIFT CODE where any scholarship may be transferred;
- A valid e-mail address (where the enrolment confirmation shall be sent);
- A credit card (in case one plans to use this form of payment, taking into account that commission fees may be applied by their own Credit Institution);
- A photo with passport format.

Alongside the previous documentations, the following files will have to be uploaded as attachment:

1. their own photo in passport format, showing the face in the foreground and white background in JPEG;
2. scan (front and back) of the same, personal, identification entered during enrolment;
3. scan of the Tax Identification Number (Foreigners, without the Italian “codice fiscale” issued by the Agenzia delle Entrate, will present a copy of it after arriving in Italy).

After the pre-enrolment procedure, candidates will have to print the enrolment request form, complete it with date and signature, no later than 22 December 2022, and send the following documentations:
- enrolment request form (printed from online procedure) with indication of date and signature, as indicated above;
- payment receipt, as proof of having paid the tuition fee as pursuant Article 12 below. (only via PagoPA);
- scan of a valid ID (back and front);
- Declaration attesting the qualifications held (High School Diploma and Master’s/Specialist Degree) for applicants outside the University of PARMA, according to the model downloadable at http://www.unipr.it/dottorati-iscrizione
- copy of a valid residence permit (only for non-UE citizens). Those who do not hold a valid residence permit yet, they will have to request it within 8 days from their arrival in Italy, according to the Italian legislation on Immigration. They will also have to provide a document proving the insurance coverage for medical treatment and hospitalization.

Scholarship winners will also have to submit the following forms which can be downloaded from the website: http://www.unipr.it/dottorati-iscrizione
- either the Scholarship Acceptance Form or Withdrawal Form for the entire duration of the course (those attending a school of specialization will have to fill in the scholarship acceptance form reserved for them);
- declaration certifying the INPS (Social Security Insurance) status by using the form included among those of the scholarship acceptance;
- Registration receipt for the separate management of contribution by INPS (Social Security Insurance) for the payment of the scholarship (if not available immediately, no later than 31.12.2022).

Foreign citizens results winners shall complete and submit the above-mentioned forms reserved for them.

For information and assistance regarding the Tax ID Code, accommodation and Permit of stay, foreign citizens may contact the CENTRO ACCOGLIENZA E INCLUSIONE (http://cai.unipr.it).

All the aforementioned documentation must be sent, by December 22, 2022, by email to dottorati@unipr.it or delivered, by appointment, directly to the UO Post Graduate Training - Research Doctorates - P.le San Francesco, 3 - 43121 Parma (open to the public: Monday, Tuesday, Wednesday, Friday from 09.00 to 12.00 - Thursday from 09.00 to 13.00).

Enrolment will become effective only after the presentation of all the above-mentioned documents within the specific deadline. Candidates who do not comply within the relating deadline will be considered forfeiters. Vacancies will be offered to the next available applicant as by final ranking.

Following a waiver by the winners of the selection, whether explicit or tacit, replacements will be made in line with the final ranking. A communication shall be sent to the applicant taking over the available position via e-mail. In this case, enrolment must be completed within the peremptory term of 5 days from the sending of the substitution notice. It will have to be done using the online procedure first and then by sending, or submitting by appointment, the enrolment request form together with the necessary attachments, within the same deadline, under penalty of revocation.
Candidates who received the notice of substitution, but intend to renounce the enrollment, must communicate their refusal without delay so that the available position can be offered to other applicants. The refusal must be notified via e-mail to dottorati@unipr.it, attaching the scanned front-back copy of a valid ID document. Eligible applicants who fail to complete the enrollment procedure by the deadline set in the notice of substitution shall be considered having refused the position tacitly.

In case of equality the following criteria will apply:

- for positions covered by scholarships, the assessment of the economic situation, determined in accordance with D.P.C.M. of 09.04.2001, published in the Official Gazette no. 172 of 26.07.2001, without prejudice to the specific procedures for the awarding of the position set out in Arts. 6 and 7 concerning reserved positions and scholarships dedicated to specific research topics;
- for positions not covered by scholarship precedes the youngest candidate.

For admission to the doctorate program, candidates with the same ranking shall submit a self-certification concerning their income situation, pursuant to the Decree issued by the Italian Prime Minister on 9 April 2001 published in the Italian Official Journal issue No. 172 of 26 July 2001.

At the beginning of the course an email will be sent confirming the enrolment and providing the student with the University credentials (i.e. student number and e-mail address). These data are essential for the PhD student’s career. In fact, the University of Parma will officially communicate with its students only via the institutional email account for any administrative information regarding the PhD course.

All enrolled PhD students are invited to create an ORCID profile (Open Researcher and Contributor. To register, visit the page https://orcid.org/register). ORCID is a unique and permanent identification number attributed to the individual researcher and which, thanks to the integration with Web of Science and Scopus, allows you to easily populate your author profile with all future publications, also in order to keep track of the different affiliations of the researcher during his/her professional life. The Code Number of the successful creation of the ORCID Profile must be communicated to the PhD Office (dottorati@unipr.it) no later than 31 December 2022.

For the duration of the course, students are required to edit, insert and promptly update any changes of personal details including IBAN/SWIFT CODE for the crediting of the scholarship, residence, domicile or any other number, connecting to the private area using the credentials received (https://unipr.esse3.cineca.it/Home.do).

In case of waiver by a person within two months of the beginning of the programme, the next eligible candidate on the ranking may take over the position, taking into account, if necessary, of the specific research field related to funding. The new candidate shall start no later than the end of the third month from the beginning of the programme.

Non-EU nationals shall submit a photocopy of the application for an Italian stay permit, for study or otherwise, and shall commit to turn in later the stay permit issued by the Questura di Parma.

All deeds and documents in a foreign language shall be translated and certified by the competent Italian diplomatic representation or consulates, in accordance with the applicable legislation concerning the admission of foreign students to courses at Italian Universities.

ARTICLE 11 - SCHOLARSHIPS
The scholarships will be assigned, during the planning of the activities of the first year of the course, by the
Academic Board according to the order in the final ranking, taking into account the indications contained in the
PhD programme Forms, regarding reserved positions, positions with scholarships linked to specific topics and
the assessment of suitability expressed by the Examination Boards during the selection.

The number of scholarships may increase to the maximum number of available positions stated in each course
description Form as result of further funding from public and private institution interested in supporting
research activities, even after the publication of this announcement, however, within the deadline for
submitting the enrolment application.

The potential increase in the number of scholarships will be stated on the attached Form of each courses,
available on line, without affecting the application deadline as indicated in art. 5 of this call.
The increase in scholarships determine the increase in the number of place available globally.

Candidates who are assigned scholarships with a predetermined research activity will be bound to carry out
that activity.

Scholarships on specific topics are those financed under certain programmes, projects or agreements with
external bodies which obligatorily provide for the performance of the activity on a specific research topic
(indicated in the call Form) and which bind the assignees to carry out such research.
Due to their particular nature, scholarships dedicated to specific research topics can not be assigned on the
basis of the general merit ranking but require an additional specific assessment.
The Examination Board, possibly supplemented by an expert as referred to in the previous art. 5, shall express
a suitability assessment for the assignment of scholarships linked to specific topics. In doing so they shall take
into consideration specific competences, experiences and aptitudes of the candidates, as well as the type of
profile sought, when indicated in the PhD programme Form.
In the modalities provided for by the PhD programme Form, each candidate can express their interest in the
assignment of one or more scholarships with specific topics to the Examination Board. This expression of
interest is not binding for the purpose of the suitability assessment.
All candidates, who apply for a specific topic PhD course, shall take part in the selection for the general
positions as well.

For candidates with the same ranking, the assessment of their income situation will work as leading factor
pursuant to the Decree issued by the Italian Prime Minister on 9 April 2001 and published in the Italian Official

The yearly gross amount of the scholarship is € 16,243,00 as defined by the Ministerial Decree n. 247,
23.02.2022. Social-security contributions are deducted monthly from the gross scholarship by the University
on behalf of the PhD candidates. Scholarships are paid to PhD candidates on a monthly basis, in arrears.

The scholarships are subject to the payment of the INPS social security contribution (gestione separata INPS)
according to the relevant legislation into force. Such a contribution is paid as follow: two-thirds to be paid by
the University and one-third to be paid by the scholarship holder. PhD candidates enjoy the related rights and
tutelage.
In terms of taxes, the provisions of Article 4 of Italian Law No. 476, 13 August 1984 apply to scholarships for
attendance to PhD programmes.
The scholarship shall not add to other research grants or other scholarships awarded on whatever ground, except for those awarded by Italian or foreign institution intended to integrate, with stays abroad, the training or research activities of the PhD Student.

The beneficiaries of research grants who are awarded scholarships as part of a PhD programme must irrevocably renounce their grant or scholarship by the start date of the course, 01.11.2022, by promptly contacting their administration.

Anyone who has already received a scholarship for a PhD course, even partially, cannot apply for a second one.

**ARTICLE 12 - TUITION FEES**

It is envisaged the total exemption from the payment of fees or grants to the University for the PhD students who have a scholarship and other forms of equivalent support under the D.M. 226/2021/2013.

It is also envisaged, pursuant to Law 11 December 2016, no. 232, paragraph 262, the total exemption from paying taxes or grants to the University for PhD students who are not scholarship beneficiaries.

All doctoral students enrolled in the programs shall be required in any case to pay €16.00 per year as revenue stamp duty and €140.00 per year as the Regional tax for the right to study.

As a result of termination of studies the installment paid for the registration is not refundable.

**Terms of payment**

To make the payment of the aforementioned amount of €156.00 you will have to connect to the University website www.unipr.it. Click on Servizi > Servizi di segreteria online, log in with your credentials to access your personal page and click on SEGRETERIA > PAGAMENTI.

Payment can be made:

- by printing the IUV bulletin to be presented at any bank branch authorized in Italy or through another payment system accepted by PagoPA (bank branches, home banking, authorized stations, Sisal and Lottomatica points, Post Offices if account holders, as well as apps payment methods such as Bancomat Pay or Satispay, etc.).

For more information on the pagoPA payment system (IUV) you can consult the following web page: https://www.unipr.it/pagoPA.

The amounts of the tuition fee for enrollment in the following years and their deadlines are determined annually by the competent Academic Bodies and published on the University web page at: http://www.unipr.it/dottorati-iscrizione. The PhD students are required to view it through the University web site.

**ARTICLE 13 – DEGREE ATTAINMENT**

The research doctor title, also referred to as: “Ph.D.” (“Dott. Ric.” in Italian), shall be achieved upon sitting for and passing the final exam. For all information on the appointment of Examination Boards for the final exam and on the procedures and requirements relating to the PhD thesis, reference is made to the Regulations of the University of Parma concerning the Programmes for PhD Research Degrees.
ARTICLE 14 - COMPATIBILITY REGIME

PhD students shall undertake to ensure attendance of the PhD programme based on the instructions given by the Academic Board.
Admission to PhD research programmes shall entail full-time and exclusive commitment.
The Academic Board shall have the power to include any extra-curricular activities to be performed along with the academic, educational and research activities of the programme.

The regimes of compatibility and incompatibility with the attendance of PhD courses are governed by Arts. 6 and 7 of the Regulations concerning PhD courses, to which reference is made.

In the arrears of adoption of the decrees of law no. 33 of 12 April 2022, which in future shall regulate the simultaneous double enrolment in courses, with particular reference to courses that require compulsory attendance and, as in the case of the PhD, an exclusive and full-time commitment, the provisions contained in Article 7 of the Ministerial Decree 226/2021 do apply, together with art. 6 paragraph 3 of the Course Regulations for the achievement of the PhD Research relating to the simultaneous enrolment in a PhD course and in a medical specialization school.

ARTICLE 15 - APPLICABLE REGULATION

For anything not expressly provided for herein, reference is made to the "Regolamento dei Corsi per il conseguimento del Dottorato di Ricerca dell'Università degli Studi di Parma" [Regulation of the University of Parma concerning the Programs for Research Doctorate degrees], issued by Rector’s Decree no. 2275 of the 27.06.2013, as amended.

ARTICLE 16 – PERSON IN CHARGE OF THE PROCEEDING

Pursuant to Italian Law No. 241 of 7 August 1990, as amended and integrated, the person in charge of the proceeding dealt with herein shall be Ms. Sonia Rizzoli – Head of the Postgraduate Training Sector] - P.le S. Francesco, 3 - 43121 Parma, Italy, phone +390521 – 034214 fax +390521/347042 and e-mail dottorati@unipr.it.

The provisions set down herein and intended to ensure transparency in all phases of the proceeding, the criteria and procedures for the appointment of examination boards and persons in charge of the proceeding implement Italian Law No. 241 of 7 August 1990, as amended.

ARTICLE 17 – PERSONAL DATA PROTECTION

Personal and sensitive data provided by candidates will be used for administrative purposes and for possible proceedings for the management of the academic career of the winners only.
The treatment of the personal data according to art. 13 of EU art. 2016/679 – General Data Protection Regulation.
The communication regarding the request for personal data is obligatory in order to evaluate the prerequisites for participation, or exclusion of the candidate from the selection process. The personal data provided can be communicated to the Administration of the Università of Parma and to related external structures within the framework of the University of Parma authorised to manage personal data under the direct control of the Owner of the Service of the Data Protection officer, exclusively for the above-mentioned purposes.
The e mail of Data Controller at the Università degli Studi of Parma, dpo@unipr.it or dpo@pec.unipr.it.
ARTICLE 18 – OTHER INFORMATION

This announcement of a competitive examination, written in Italian and in English, is published on the website of the University of Parma, [http://www.unipr.it](http://www.unipr.it); the relating notice is available on the website of the Italian Ministry of Education, University and Research and on the EU Euraxess website.

Additional information and regulation details may be asked to the Postgraduate Training – Ph.D Office, P.le San Francesco, 3 - 43121 Parma, Italy Phone: +39 0521/034214 [dottorati@unipr.it](mailto:dottorati@unipr.it).

Prof. Paolo Andrei

Digitally signed pursuant to Legislative Decree no. 82/2005

<table>
<thead>
<tr>
<th>U.O.R. - Unità Organizzativa Responsabile (Relevant Organizational Unit)</th>
<th>Area Dirigenziale Didattica, Internazionalizzazione e Servizi agli Studenti (Relevant Organizational Management - Teaching Area and Students' Services)</th>
<th>Ms. Anna Maria Perta</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.P.A. Responsabile del Procedimento Amministrativo (Person in charge of the proceeding)</td>
<td>UO Formazione Post Lauream (Head in charge of the administrative proceeding of the Postgraduate Training)</td>
<td>Ms. Sonia Rizzoli</td>
</tr>
</tbody>
</table>
ECONOMICS & MANAGEMENT OF INNOVATION AND SUSTAINABILITY (EMIS)

CYCLE XXXVIII

COORDINATOR
Prof.ssa Beatrice LUCERI
Department of Economics and Management
email: Beatrice.luceri@unipr.it

DURATION
3 years

STARTING DATE OF THE PHD PROGRAM
01/01/2023

PARTNER INSTITUTION
• University of Ferrara
• University Cattolica del Sacro Cuore

RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- Regulatory aspects and effects of agricultural and agri-food policies
- Branding and value creation
- Consumer behavior and marketing management
- Determination and communication of value in businesses
- Knowledge economy, organization, human capital and labour
- Culture economics: management and policies
- Environmental and natural resources economics
- Economics and public management
- Economics and industrial and development policy
- Finance and risk management
- Health care and health management
- Performance evaluation, balance analysis and business management auditing
- New entrepreneurship, business strategy and management development
- Intangible resources and management systems, financial and non-financial assessment and reporting
- Economic decisions under uncertain contexts
- Regional and territorial systems

TRAINING OBJECTIVES

The course is designed to train Ph.D. students having a background in economic-business and economic-political, according to a theoretical and quantitative perspective and integrating – as a particular specificity of the course – economic, management, and mathematical-statistical tools. The aim is to provide students with the knowledge and skills useful for successful employability in academia, in companies or public authorities in job positions with a strong research connotation in the regional, Italian and European labor markets.

To this end, the Ph.D. program is structured to develop:
- a solid knowledge of the processes of business management and organization, as well as the processes of management of socio-economic phenomena and policy at regional and macroeconomic levels, through the completion of the basic preparation and the learning of appropriate research methodologies;
- a specialized theoretical and applicative preparation in the specific research area in which the Ph.D. program has declined the innovation and sustainability topic.

The educational objectives are achieved by offering a set of courses on consolidated and innovative research methods in the social sciences, qualitative and quantitative analysis tools and on the most relevant theoretical perspectives, with a strong interdisciplinary approach. Specifically, the first year is devoted to transferring the basic knowledge needed to appropriately structure the research project. The courses deal with bibliographic research, research design, quantitative and qualitative research techniques, tools for analyzing qualitative and quantitative data, and decision-making models of different economic actors. Starting from the second year, specific research activities, lectures and seminars consistent with the Ph.D. student’s field
of research, as well as courses aimed at the development of soft skills, language skills, and computer skills, complete the training. At the same time, the Ph.D. student starts writing the thesis that represents the main commitment of the third year. Special emphasis is placed on international mobility and periods of study abroad at qualified research institutions, aimed at individual growth and the advancement of the doctoral thesis project. In summary, a training course that, after providing the methodological foundations of scientific research, is custom designed on the specific interests and skills of each Ph.D. student.

ADMISSION REQUIREMENTS

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:

− "Laurea Magistrale" LM-16 Finance
− "Laurea Magistrale" LM-31 Management Engineering
− "Laurea Magistrale" LM-35 Environmental Engineering
− "Laurea Magistrale" LM-40 Mathematics
− "Laurea Magistrale" LM-52 International relations
− "Laurea Magistrale" LM-56 Economics
− "Laurea Magistrale" LM-62 Political Science
− "Laurea Magistrale" LM-63 Public Administration
− "Laurea Magistrale" LM-76 Environmental and cultural economics
− "Laurea Magistrale" LM-77 Management
− "Laurea Magistrale" LM-81 Development co-operation
− "Laurea Magistrale" LM-82 Statistics
− "Laurea Magistrale" LM-83 Actuarial, Financial and Economic Statistics
− "Laurea Magistrale" LM-90 European studies

as well as the equivalent “laurea specialistica” or "laurea” achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99

− Second cycle Master’s degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 21.12.2022

POSITIONS PUT OUT TO COMPETITION

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>Research Topic, if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Scholarship funded by University of Parma (Ministerial funds)</td>
<td>---</td>
</tr>
<tr>
<td>1</td>
<td>Scholarship funded by University of Ferrara</td>
<td>---</td>
</tr>
</tbody>
</table>

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>BOUND RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods&quot; related to the notice Extended partnerships Investment 1.3 creation of &quot;Partnerships extended to universities, research centers, companies for the financing of basic research projects&quot; - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</td>
<td>Retailers’ policies to support sustainability</td>
</tr>
</tbody>
</table>

The research project intends to analyze the policies promoted by retailers aimed at fostering the development of sustainable and nutritionally healthy products. Specifically, with reference to the presidium of sustainability, the focus will be on the environmental and social dimensions. Regarding the assortment environmental impact, the analysis will mainly focus on food packaging, in terms of
recovery, recycling, and use of materials. Contextually, the social field will be analyzed with reference to the policies undertaken by retailers toward supplier companies. As regards the nutrition area, the research will focus on deepening the supply of healthy products by distributors, who are called upon both to select store-brand products and to develop store-brand products.

**Scientific coordinators:** Prof. Guido CRISTINI, Cristina ZERBINI

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| PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001) | The research project is developed within the framework of the activities envisaged in SPOKE1 of the ONFOODS project (Research and innovation network on food and nutrition Sustainability, Safety and Security). In detail, the research activities that will be developed during the PhD include: i) the definition of social accounting and reporting systems for sustainable food supply chains using specific analysis methodologies and indicators for measuring the sustainability of value chains and food environments such as Life Cycle Assessment, CHG protocol, Risk-Benefit Assessment, Local Multiplier3, FAO-SAFA; ii) the analysis of governance and organizational models (formal and informal) used to promote sustainable production practices along food value chains and fair access to food.

**Scientific coordinators:** Prof. Filippo ARFINI, Maria Cecilia MANCINI

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**ADMISSION PROCEDURES**

| Assessment of QUALIFICATIONS: up to 75 points |
| (a minimum score of 50 points shall be required to be admitted to the Oral Exam) |
| ORAL EXAM: up to 45 points |
| Minimum score for ELIGIBILITY: 70/120 |

**Foreign Language**

Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.

The evaluation of the knowledge of this language will be oral and will consist in presenting a part of the research project in **English**.

**CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

**THE INTERVIEW MAY BE HELD ALSO IN ENGLISH**

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**LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT**

**MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION**

| ANNEX A | (art. 5 of the Competition notice) |
| Identification Document | Scanned Copy of a valid identity document with photo (i.e. identity card, passport) |
| Curriculum Vitae et studiorum | No specific CV format is required (see art. 4 of the Competition notice) |
Abstract of degree thesis

Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10,000 characters including spaces).

Qualifications

Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice):
- University that granted the degree
- Type of degree (first cycle/second cycle/single cycle)
- Name of the degree program
- Date of graduation
- Final mark
- List of exams and corresponding scores (academic transcript of records)
- Translation into Italian or English (only for degrees issued in languages other than Italian or English).

Research Project

Written in Italian or in English, according to the format attached to the competition notice. It will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project).

It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT

(only qualifications attested by a document drawn up in Italian or in English)

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statement of Research interest</td>
<td>Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate’s reasons to attend the PhD program and at describing her/his specific research interests</td>
</tr>
<tr>
<td>Scientific Publications</td>
<td>Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings</td>
</tr>
<tr>
<td>Other Academic qualifications</td>
<td>First or second level Master’s degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program</td>
</tr>
</tbody>
</table>
| Other experiences (training, work, research, teaching, etc.) | - Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units  
  - Working activity  
  - Professional and/or training internship  
  - Language proficiency certificates  
  - Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)  
  - Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) Continuous and lasting experiences will be privileged - at least one semester - and will be evaluated only if they are recognized as functional to the acquisition of skills, experience and qualification within the research areas of the PhD course |

EVALUATION CRITERIA

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation mark (Average of the exam marks) for the candidate will attain the degree no later than 21 December 2022)</td>
<td>Score related to the final mark or to the average of the exam marks for graduands.</td>
<td>Up to 12 points</td>
</tr>
</tbody>
</table>

UNIVERSITÀ DI PARMA
Via Università, 12 - 43127 Parma
www.unipr.it
20
Other qualifications
Qualified professional experiences (in the case of professional experiences, continuous and lasting ones will be privileged - at least one semester - and will be evaluated only if they are recognized as functional to the acquisition of skills, experience and qualification in the research areas covered by the specific doctoral course); other academic qualifications (masters, advanced courses, at least two-monthly training courses provided by university-level training institutions or bodies); didactic, seminar or university training experiences.
Up to 12 points

Scientific publications
The assessment will be carried out with a view to accessing the PhD course and taking into account the degree of maturity required for the specific position. Only publications of which a copy has been included among the qualifications presented will be evaluated and not any publications cited exclusively in the curriculum and / or in the form of a list.
Up to 6 points

Graduation thesis
Congruence with the research topics of the PhD course and quality of the research methodology
Up to 15 points

Research Project
The project will be evaluated based on the scientific value, the originality of the proposal, the articulation, the feasibility of the proposal and the consistency with the themes of the doctorate.
Up to 24 points

Statement of Research Interest
The motivation and interest in attending the PhD course will be evaluated.
Up to 6 points

ORAL EXAM
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course

<table>
<thead>
<tr>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>knowledge of the foreign language: max 10 points</td>
<td></td>
</tr>
<tr>
<td>research project presentation: max 35 points</td>
<td></td>
</tr>
<tr>
<td>Up to 45 points</td>
<td></td>
</tr>
</tbody>
</table>

SCHEDULE OF THE ADMISSION EXAMS

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL EXAM</td>
<td>5 December 2022</td>
<td>10:00 AM (Italian Time)</td>
<td>Department of Economics and Management Via J.F. Kennedy, 6 43125 PARMA - ITALY</td>
</tr>
</tbody>
</table>

OTHER INFORMATION
For foreign candidates, the admission examinations may be held in English at the candidate’s choice.
The PhD in Physics, with a duration of 3 years, is established as a unifying element of the third-level University education in the Physics area. Besides their main commitment to the research activity, students are supposed to spend a substantial part of their training period in attending advanced courses as well as national and international schools. Students are encouraged to spend part of their time abroad, in order to participate in scientific collaborations in their fields of interest, and follow advanced courses in support of their research program. During the three years, teaching commitments are progressively reduced towards a full-time engagement in the research activity. The evaluation of the training program is carried out - at the end of each year - through open seminars held by the students. The independent scientific research is expected to lead to publication of results in international, peer-reviewed journals. The ultimate goal of the PhD in Physics is a highly specialized scientific training that opens professional careers in academic institutions and research laboratories, either public or private. The PhD in Physics is divided into three areas corresponding to major groups of disciplines of Physical Sciences covered by the research activity of the Department of Mathematical, Physical and Computer Sciences: Condensed Matter and Materials Physics, Theoretical Physics, Biophysics and Applied Physics.

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:
- Laurea specialistica or Laurea magistrale (second cycle master's degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- Second cycle Master’s degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 21.12.2022

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.
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<td>PhD scholarship funded within the PNRR research program called &quot;National Quantum Science and Technology Institute - NQSTI &quot;Extended partnerships Investment 1.3 creation of &quot; related to the notice Partnerships extended to universities, research centers, companies for the financing of basic research projects&quot; - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000940001)</td>
<td>Realistic modelling of molecular qubits</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Characterization of molecular spins for quantum technologies by conventional and innovative magnetometric techniques</td>
</tr>
<tr>
<td></td>
<td>PhD scholarship funded within the PNRR research program called &quot;National Quantum Science and Technology Institute - NQSTI &quot;Extended partnerships Investment 1.3 creation of &quot; related to the notice Partnerships extended to universities, research centers, companies for the financing of basic research projects&quot; - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000940001)</td>
<td>Controlling open quantum systems</td>
</tr>
</tbody>
</table>

**ADMISSION PROCEDURES**

| Assessment of QUALIFICATIONS: up to 50 points | up to 70 points |
| (a minimum score of 20 points shall be required to be admitted to the Oral Exam) | Minimum score for ELIGIBILITY: 70/120 |

**Foreign Language**

Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.

**APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

**THE INTERVIEW MAY BE HELD ALSO IN ENGLISH**

**LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT**

**MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION**

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<th>ANNEX A</th>
<th>(art. 5 of the Competition notice)</th>
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<tbody>
<tr>
<td>Identification Document</td>
<td>Scanned Copy of a valid identity document with photo (i.e. identity card, passport)</td>
</tr>
<tr>
<td><strong>Curriculum Vitae et studiorum</strong></td>
<td>No specific CV format is required (see art. 4 of the Competition notice)</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Abstract of degree thesis</strong></td>
<td>Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis countersigned by their supervisor.</td>
</tr>
<tr>
<td><strong>Qualifications</strong></td>
<td>Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</td>
</tr>
<tr>
<td><strong>Research Project and Statement of Research interest</strong></td>
<td>A brief text (max 3 pages) in English. The candidates must describe their research interests and indicate the preferred topic among those listed above, possibly suggesting a second choice theme. For the first choice theme, candidates must outlay an original research project including a concise state of the art, the relevance of the problem and the expected results. Candidates are warmly invited to contact the potential supervisors listed at <a href="http://smfi.unipr.it/it">http://smfi.unipr.it/it</a> It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.</td>
</tr>
</tbody>
</table>

**FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT**

(only qualifications attested by a document drawn up in Italian or in English)

| **Other qualifications** | Any other document certifying the applicant’s training and abilities. Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc |

**EVALUATION CRITERIA**

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</td>
<td>Up to 25 points</td>
</tr>
<tr>
<td>Graduation thesis</td>
<td>Consistency of the Master’ Degree thesis with the doctoral program research topics. The assessment will make use of the information contained in the abstract (max 1 page) of the thesis (although not yet discussed, in this case countersigned by the thesis supervisor) and in the curriculum, where a brief description of the thesis work should be reported.</td>
<td>Up to 5 points</td>
</tr>
<tr>
<td>Research Project and Statement of Research Interest</td>
<td>The project will be evaluated in relation to its scientific value and originality. The motivation expressed by the candidate in relation to the themes of the research doctorate will be evaluated</td>
<td>Up to 10 points</td>
</tr>
<tr>
<td>Other qualifications</td>
<td>Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc</td>
<td>Up to 10 points</td>
</tr>
<tr>
<td>ORAL EXAM</td>
<td>EVALUATION CRITERIA</td>
<td>POINTS</td>
</tr>
</tbody>
</table>

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24
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course.

<table>
<thead>
<tr>
<th>Preparations</th>
<th>Up to 70 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>preparation on the issues related to the Master’s degree thesis</td>
<td></td>
</tr>
<tr>
<td>research project presentation</td>
<td></td>
</tr>
<tr>
<td>general knowledge of issues connected to the PhD course</td>
<td></td>
</tr>
<tr>
<td>knowledge of the foreign language</td>
<td></td>
</tr>
</tbody>
</table>

### SCHEDULE OF THE ADMISSION EXAMS

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DATE</strong></td>
<td>5 December 2022 (with possible extension in the following days)</td>
</tr>
<tr>
<td><strong>TIME</strong></td>
<td>03:00 PM (Italian time)</td>
</tr>
<tr>
<td></td>
<td>The schedule of oral examinations will appear at <a href="http://smfi.unipr.it/it">http://smfi.unipr.it/it</a></td>
</tr>
<tr>
<td><strong>PLACE</strong></td>
<td>Department of Mathematical, Physical and Computer Sciences</td>
</tr>
<tr>
<td></td>
<td>PHYSICS BUILDING</td>
</tr>
<tr>
<td></td>
<td>Parco Area delle Scienze, 7/A – Campus</td>
</tr>
<tr>
<td></td>
<td>43124 PARMA - ITALY</td>
</tr>
</tbody>
</table>

### OTHER INFORMATION

The Oral Exam will focus on the description of the research work carried out to prepare the Graduation Thesis for the Laurea Magistrale/Specialistica, as well as on the research project that the candidate proposes to carry out within the research topics of the Research Doctorate Program in Physics at the Department of Mathematical, Physical and Computer Sciences of the University of Parma which are described at [http://smfi.unipr.it/it](http://smfi.unipr.it/it)

In the application to participate in the competitive examination, the candidate must choose and specify one research topic. The candidate may indicate a second priority choice.

For foreign candidates, the admission examinations may be held in English at the candidate’s choice.
INDUSTRIAL ENGINEERING

CYCLE XXXVIII

COORDINATOR Prof. Gianni ROYER CARFAGNI
email: gianni.royer@unipr.it
Department of Engineering and Architecture

DURATION 3 years

STARTING DATE OF THE PHD PROGRAM 01/01/2023

RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- Theoretical and applied mechanics, mechanics of materials and structures, material technology, machine design, measurements and diagnostics;
- Economic, organizational, managerial, logistics, plants and legal aspects in the field of engineering;
- Energy systems, thermo-fluid dynamics, fluid machinery, applied physics.

TRAINING OBJECTIVES

The Industrial Engineering PhD program aims at giving to the participants a deep knowledge in the main topics relevant to industrial engineering. The PhD course presents numerical, analytical and experimental techniques, in order to face any technical or scientific problem of the industrial engineering, with managerial skills, to provide autonomy in work and readiness of inclusion in a collaborative environment with other researchers and technicians. The internationalization phase, envisaged in the three-year curriculum, allows to forge links with other foreign realities by providing to the graduate student an additional tool to get into a scientific context, not just limited by national borders.

ADMISSION REQUIREMENTS

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:
- Laurea specialistica or Laurea magistrale (second cycle master's degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 21.12.2022

POSITIONS PUT OUT TO COMPETITION

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>Research Topic, if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scholarship co-funded by Fondazione Cariparma</td>
<td>---</td>
</tr>
</tbody>
</table>

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.
<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>BOUND RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;Ecosystem for Sustainable Transition in Emilia-Romagna&quot; related to the notice Innovation Ecosystems - Investment 1.5 &quot;Creation and strengthening of &quot;Innovation Ecosystems&quot;, construction of &quot;territorial R&amp;D leaders&quot;&quot; – Notice MUR 3277 of 30/12/2021 - funded by the European Union - NextGenerationEU (Cup Code D93C22000460001)</td>
<td>Environmental, Social and Governance (ESG) responsible investing and finance: institutions, markets and tools</td>
</tr>
</tbody>
</table>

**ADMISSION PROCEDURES**

<table>
<thead>
<tr>
<th>Assessment of QUALIFICATIONS:</th>
<th>up to 70 points (a minimum score of 40 points shall be required to be admitted to the Oral Exam)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL EXAM:</td>
<td>up to 50 points</td>
</tr>
<tr>
<td>Minimum score for ELIGIBILITY:</td>
<td>70/120</td>
</tr>
</tbody>
</table>

**Foreign Language**

Lingua di cui verrà accertata la conoscenza in sede di Prova Orale: **INGLESE**.
La verifica della conoscenza di tale lingua avverrà in forma scritta/orale e consisterà nella lettura e traduzione di un testo scientifico.

**CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(The Oral Exam takes place in person. Candidates who intend to take the Oral Exam remotely must submit a motivated REQUEST, to this purpose, as per the model attached to the competition notice)

**THE INTERVIEW MAY BE HELD ALSO IN ENGLISH**

**LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT**

**MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION**

**ANNEX A**

(art. 5 of the Competition notice)

**Identification Document**

Scanned Copy of a valid identity document with photo (i.e. identity card, passport)

**Curriculum Vitae et studiorum**

No specific CV format is required (see art. 4 of the Competition notice)

**Abstract of degree thesis**

Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)

**Qualifications**

Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) - Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

**Research Project**

Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project).
To identify the topic of the aforementioned project, the candidate may contact one of the Members of the Academic Board (available at: https://dia.unipr.it/it/node/2834). It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.
**FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT**
(only qualifications attested by a document drawn up in Italian or in English)

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Evaluation Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statement of Research interest</td>
<td>Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests</td>
<td></td>
</tr>
<tr>
<td>Scientific Publications</td>
<td>Articles on national and international journals, contributions presented at conferences or symposia, book chapters. It is necessary to attach a copy to online application</td>
<td></td>
</tr>
<tr>
<td>Reference Letters</td>
<td>A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities (to be attached to the online application)</td>
<td></td>
</tr>
<tr>
<td>Other Academic qualifications</td>
<td>First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program</td>
<td></td>
</tr>
</tbody>
</table>
| Other experiences (training, work, research, teaching, etc.) | - Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units
  - Working activity
  - Professional and/or training internship
  - Language proficiency certificates
  - Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)
  - Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)                                                                 |         |

**EVALUATION CRITERIA**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Evaluation Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark, both of the bachelor's and master's degrees.</td>
<td>Up to 15 points</td>
</tr>
</tbody>
</table>
| Graduation mark                        | Score related to the final mark:
  - 110 with honours (magna cum laude): 10 points;
  - 110: 8 points;
  - From 105 to 109: up to 6 points;
  - From 100 to 104: up to 3 points;
  - From 66 to 99: 0 points
  - The scores will be proportionally renormalized in case of equivalent evaluations                                                                                                           | Up to 10 points |
| Average of the exam marks (if the candidate will attain the degree no later than 21 December 2022) | Score related to the average of the exam marks:
  - 30/30: 10 points;
  - From 28/30 to 29/30: up to 5 points;
  - From 26/30 to 27/30: up to 3 points;
  - From 18/30 to 25/30: 0 points;
  - The scores will be proportionally renormalized in case of equivalent evaluations                                                                                                           | Up to 10 points |
<p>| Graduation thesis                      | Consistency of the Master’s Degree thesis with the doctoral program research topics                                                                                                                                 | Up to 10 points |
| Research Project                       | Consistency of the Research Project with the doctoral program research topics                                                                                                                                       | Up to 15 points |</p>
<table>
<thead>
<tr>
<th><strong>Statement of Research Interest</strong></th>
<th>Evaluation of the candidate’s motivations to attend the doctoral course and congruity of the research interests with the research topics of the doctoral course.</th>
<th>Up to 5 points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scientific publications</strong></td>
<td>Articles on national and international journals, contributions presented at conferences or symposia, book chapters. It is necessary to attach a copy to online application</td>
<td>Up to 5 points</td>
</tr>
<tr>
<td><strong>Reference Letters</strong></td>
<td>A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities</td>
<td>Up to 5 points</td>
</tr>
<tr>
<td><strong>Other Academic qualifications</strong></td>
<td>First or second level Master’s degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program</td>
<td>Up to 2 points</td>
</tr>
</tbody>
</table>
| **Other experiences**            | - Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units  
- Working activity  
- Professional and/or training internship  
- Language proficiency certificates  
- Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)  
- Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) | Up to 3 points |

**ORAL EXAM**

<table>
<thead>
<tr>
<th><strong>EVALUATION CRITERIA</strong></th>
<th><strong>POINTS</strong></th>
</tr>
</thead>
</table>
| - research project presentation  
- general knowledge of issues connected to the PhD course  
- knowledge of foreign languages | Up to 50 points |

**SCHEDULE OF THE ADMISSION EXAMS**

<table>
<thead>
<tr>
<th><strong>ORAL EXAM</strong></th>
<th><strong>DATE</strong></th>
<th>5 December 2022 (with possible extension in the following days)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TIME</strong></td>
<td>09:00 AM (Italian Time)</td>
<td></td>
</tr>
</tbody>
</table>
| **PLACE**     | Meeting Room – Building 10  
Department of Engineering and Architecture  
Parco Area delle Scienze, 181/A - Campus  
43124 PARMA - ITALY |
| **OTHER INFORMATION** | For foreign candidates, the admission examinations may be held in English at the candidate’s choice. |
**NEUROSCIENCES**

<table>
<thead>
<tr>
<th>CYCLE</th>
<th>XXXVIII</th>
</tr>
</thead>
</table>
| COORDINATOR | Prof. Luca BONINI  
email: luca.bonini@unipr.it  
Department of Medicine and Surgery |
| DURATION | 3 years |
| STARTING DATE OF THE PHD PROGRAM | 01/01/2023 |
| CURRICULUM | 1. Neurosciences |

**RESEARCH TOPICS** (The candidate **MUST mandatorily** indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- **Integrated neuroscience**: comparative neurophysiology and neuroethology, cognitive and social neuroscience, cognitive psychology, psychology of perception and action, psychobiology, psychophysiology.

**TRAINING OBJECTIVES**

- Provide a global and interdisciplinary vision of the proposed research sectors, guaranteeing a high degree of specialization in research in these areas;
- Acquire skills and abilities in the autonomous use of at least one neuroscientific investigation technique;
- Promote the development of networks of national and international relations and exchanges aimed at sharing and deepening the research topic addressed.

**ADMISSION REQUIREMENTS**

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply:

- Laurea specialistica or Laurea magistrale (second cycle master's degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is **by 21.12.2022**

**POSITIONS PUT OUT TO COMPETITION**

<table>
<thead>
<tr>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Scholarship</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>Research Topic, if any</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scholarship funded by University of Parma (University funds)</td>
<td>---</td>
</tr>
</tbody>
</table>

**Position with Scholarship LINKED TO SPECIFIC TOPICS** (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.
**Funding entity**

1. PhD scholarship funded within the PNRR research program called "MNESYS - A multiscale integrated approach to the study of the nervous system in health and disease" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000930002)

**BOUND RESEARCH TOPIC**

Stress, autonomic nervous system and cortisol

---

**ADMISSION PROCEDURES**

**Assessment of QUALIFICATIONS:** up to 40 points
(a minimum score of 20 points must be obtained to be admitted to the Oral Exam)

**ORAL EXAM:** up to 80 points

Minimum score for ELIGIBILITY: 70/120

**Foreign Language**

During the Oral Exam it will be verified the proficiency in the following language: **ENGLISH**.

The evaluation of this language will be oral and will consist in the discussion of the research project presented in English.

**APPLICANTS ADMITTED TO THE ORAL EXAM WILL TAKE THE EXAM IN PRESENCE**

*The Oral Exam can be taken in remote mode with audio and video connection only for candidates residing abroad or temporarily abroad for study/work reasons who submit a motivated request as per the model attached to the competition announcement. It is also possible to ask for the remote examination for those in isolation/quarantine for COVID-19 virus infection, at the moment of the exam, by submitting a motivated REQUEST as per the model attached to the competition announcement)

**THE INTERVIEW MAY BE HELD ALSO IN ENGLISH**

---

**LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT**

**MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION**

**ANNEX A**

(art. 5 of the Competition notice)

**Identification Document**

Scanned Copy of a valid identity document with photo (i.e. identity card, passport)

**Curriculum Vitae et studiorum**

No specific CV format is required (see art. 4 of the Competition notice)

**Abstract of degree thesis**

Abstract of the second cycle master’s degree thesis and the full thesis in pdf format. Undergraduate applicants must submit the draft of the thesis approved by their supervisor.

**Academic qualifications**

Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) - Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

**Research Project**

Written in English, 3 pages with single spacing in Times New Roman 12, including bibliography, it must focusing on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT
tools useful for verifying the originality of the submitted Project) and it shall be structured as follows: introduction of the problem in the scientific context, relevance of the problem, objectives, expected results.

It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)

| Statement of Research interest | Short text – maximum 1 page – in English, aimed at explaining the candidate's motivation to attend the PhD program and at describing her/his specific research interests |
| Scientific Publications | Articles on national and international journals with peer reviewing, abstracts of papers presented at conferences or symposia, book chapters etc. |
| Other Academic qualifications | First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program |

Other experiences (training, work, research, teaching, etc.) related to the topic of PhD course

- Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units
- Working activity
- Professional and/or training internship
- Language proficiency certificates
- Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)
- Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)

EVALUATION CRITERIA

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et Studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</td>
<td>Up to 40 points</td>
</tr>
</tbody>
</table>

Curriculum Vitae et Studiorum will be evaluated based on the following qualifications and scores:

<table>
<thead>
<tr>
<th>Graduation mark</th>
<th>Score related to the final mark:</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 with honours (magna cum laude): 10 points; 110: 7 points</td>
<td></td>
</tr>
<tr>
<td>From 108 to 109: 5 points</td>
<td></td>
</tr>
<tr>
<td>From 106 to 107: 3 points</td>
<td></td>
</tr>
<tr>
<td>104-105: 1 point</td>
<td></td>
</tr>
<tr>
<td>Under 104: 0 points</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Average of the exam marks (if the candidate will attain the degree no later than 21 December 2022)</th>
<th>Score related to the average of the exam marks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 29/30 to 30/30: 10 points</td>
<td></td>
</tr>
<tr>
<td>From 28/30 to 28.99/30: 7 points</td>
<td></td>
</tr>
<tr>
<td>From 27/30 to 27.99/30: 5 points</td>
<td></td>
</tr>
<tr>
<td>From 26/30 to 26.99/30: 3 points</td>
<td></td>
</tr>
<tr>
<td>Under 26/30: 0 points</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graduation thesis</th>
<th>Congruence with the research topics of the PhD course and methodological quality of the experimental or bibliographic work.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experimental thesis related to the PhD program of Neuroscience: 10 points</td>
<td></td>
</tr>
<tr>
<td>Non-experimental and relevant thesis: 5 points</td>
<td></td>
</tr>
<tr>
<td>Thesis not relevant: 0 points</td>
<td></td>
</tr>
</tbody>
</table>

| | | |
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| | | |

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www.unipr.it
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| Research Project | Project evaluation score:  
| o scientific value: 2.5 points  
| o structure of the proposal: 2.5 points  
| o proposal feasibility in relation to the specific research topics of the PhD course: 2.5 points  
| o originality of the proposal: 2.5 points | Up to 10 points |
| Statement of Research Interest | Short text – maximum 1 page – in Italian or in English | Up to 2 points |
| Scientific publications | o Each article in a peer-reviewed international journal: 1 point  
| o Each book chapter: 0.4 points  
| o abstracts/papers/posters presented at conferences or symposia: 0.3 points | Up to 5 points |
| Other Academic qualifications | Other academic qualifications consistent with the research topics of this PhD program | Up to 3 points |

ORAL EXAM  
EVALUATION CRITERIA  
POINTS
The ORAL examination includes:

A) the oral report on 2 topics chosen by lot from those indicated in the list below:

1) The origin of the nervous impulses
2) The synapses
3) The reflexes
4) Molecular and cellular bases of signal transduction
5) The motor system
6) The visual system
7) The somatosensory system
8) The autonomic nervous system
9) Neurobiology of language
10) Neurobiology of attention
11) Neurobiology of emotions
12) Memory and learning

B) The presentation and discussion of the research project, aimed at verifying the candidate’s aptitude for scientific research. The discussion will take in English to evaluate the knowledge and the fluency of the language.

- Up to 40 points for the oral report on the two topics extracted (up to 20 points per topic)
- Up to 20 points for the project presentation
- Up to 20 points for knowledge of the foreign language

Up to 80 points

SCHEDULE OF THE ADMISSION EXAMS

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
</table>
|           | 5 December | 09:00 AM (Italian Time) | Department of Medicine and Surgery
Neuroscience Unit - Building E - 1st Floor
Via Volturno, 39 - 43125 PARMA - ITALY |
| OTHER INFORMATION |     |               | For foreign candidates, the admission examinations may be held in English at the candidate’s choice. |
# Materials Science and Technology

<table>
<thead>
<tr>
<th>Cycle</th>
<th>XXXVIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinator</td>
<td>Prof. Enrico DALCANALE</td>
</tr>
<tr>
<td></td>
<td>email: <a href="mailto:enrico.dalcanale@unipr.it">enrico.dalcanale@unipr.it</a></td>
</tr>
<tr>
<td></td>
<td>Department of Chemistry, Life Sciences and Environmental Sustainability</td>
</tr>
<tr>
<td>Duration</td>
<td>3 years</td>
</tr>
<tr>
<td>Starting Date</td>
<td>01/01/2023</td>
</tr>
<tr>
<td>Partner Institution</td>
<td>The Italian National Research Council (C.N.R.)</td>
</tr>
</tbody>
</table>

## Research Topics
(The candidate **MUST mandatorily** indicate one research topic in the form ANNEX A)

- Photovoltaic devices
- Functional materials
- Nanodiagnostics
- Nanostructured materials
- Supramolecular sensors and devices
- Semiconductive massive crystals
- Low dimensionality semiconductive structures
- Self-healing and self-diagnostic polymers
- Ceramic and composite materials
- Magnetic materials and magneto-refrigeration

## Training Objectives
The PhD program in Materials Science aims at the preparation of PhDs equipped with strong scientific background and wide research experience in materials science. Enrollment is open to MS laureates in Materials Science, Chemistry, Physics, Industrial Chemistry, Engineering and Biological Sciences. The Board provides a wide range of courses and seminars in different scientific areas, with particular focus on all aspects of materials science (synthesis, characterization, functions and devices). It also offers soft skills courses. The PhD program offers an interdisciplinary preparation through research activity, also in collaboration with foreign Institutions.

## Admission Requirements
Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:
- Laurea specialistica or Laurea magistrale (second cycle master's degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is **by 21.12.2022**

## Position Put Out to Competition

<table>
<thead>
<tr>
<th>Position Put Out to Competition</th>
<th>With Scholarship</th>
<th>Reserved to holders of scholarship within specific international mobility programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>BOUND RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;Ecosystem for Sustainable Transition in Emilia-Romagna&quot; related to the notice Innovation Ecosystems - Investment 1.5 &quot;Creation and strengthening of &quot;Innovation Ecosystems&quot;, construction of &quot;territorial R&amp;D leaders&quot;&quot; – Notice MUR 3277 of 30/12/2021 - funded by the European Union - NextGenerationEU (Cup Code D93C22000460001)</td>
<td>Multiscale modeling of molecular functional materials towards optimized organic light emitting diodes (OLED).</td>
</tr>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;Ecosystem for Sustainable Transition in Emilia-Romagna&quot; related to the notice Innovation Ecosystems - Investment 1.5 &quot;Creation and strengthening of &quot;Innovation Ecosystems&quot;, construction of &quot;territorial R&amp;D leaders&quot;&quot; – Notice MUR 3277 of 30/12/2021 - funded by the European Union - NextGenerationEU (Cup Code D93C22000460001)</td>
<td>Multiscale modeling of Multifunctional molecular materials: chiral emitters for OLED and microscopy applications</td>
</tr>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;National Quantum Science and Technology Institute - NQSTI &quot;Extended partnerships Investment 1.3 creation of &quot; related to the notice Partnerships extended to universities, research centers, companies for the financing of basic research projects&quot; - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000940001)</td>
<td>Molecular systems for quantum technologies: relaxation, decoherence, spin and chirality.</td>
</tr>
</tbody>
</table>

Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIFIC INTERNATIONAL MOBILITY PROGRAMS

<table>
<thead>
<tr>
<th>N°</th>
<th>Agreements/Cooperations/Mobility Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reserved to holders under the PROJECT UE H2020 MSCA-ITN-ETN &quot;NanED&quot; project 956099 (Supervisor: Dr. Mauro Gemmi)</td>
</tr>
</tbody>
</table>

**ADMISSION PROCEDURES**

**Assessment of QUALIFICATIONS:** up to 60 points  
(a minimum score of 30 points shall be required to be admitted to the Oral Exam)

**ORAL EXAM:** up to 60 points  
**Minimum score for ELIGIBILITY:** 70/120

**ADMISSION PROCEDURES for positions reserved to holders of scholarship holders within specific international mobility programs**

**Assessment of QUALIFICATIONS:** up to 120 points  
**Minimum score for ELIGIBILITY:** 70/120

**Foreign Language**

Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.  
The evaluation of the knowledge of this language will be oral and will consist in translating of a scientific text.
CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE

(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION

<table>
<thead>
<tr>
<th>ANNEX A</th>
<th>(art. 5 of the Competition notice)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification Document</td>
<td>Scanned Copy of a valid identity document with photo (i.e. identity card, passport)</td>
</tr>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>No specific CV format is required (see art. 4 of the Competition notice)</td>
</tr>
<tr>
<td>Abstract of degree thesis</td>
<td>Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10,000 characters including spaces)</td>
</tr>
<tr>
<td>Qualifications</td>
<td>Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</td>
</tr>
</tbody>
</table>

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)

| Statement of Research interest | Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests |
| Scientific Publications | Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings |
| Final mark of graduation | |
| Average of the exam marks | (for candidates enrolled under conditions and who graduate by 21.12.2022) |

EVALUATION CRITERIA

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</td>
<td>Up to 20 points</td>
</tr>
<tr>
<td>Graduation mark</td>
<td>Score related to the final mark: - 110 with honors (magna cum laude): 20 points - 110: 16 points - From 105 to 109: 12 points - From 100 to 104: 8 points - From 95 to 99: 4 points - Under 95: 0 points</td>
<td>Up to 20 points</td>
</tr>
</tbody>
</table>
**Average of the exam marks (if the candidate will attain the degree no later than 21 December 2022)**

Score related to the average of the exam marks:
- 30/30: 20 points
- From 28/30 to 29/30: 16 points
- From 26/30 to 27/30: 12 points
- 25/30: 8 points
- 24/30: 4 points
- Under 24/30: 0 points

Up to 20 points

**Graduation thesis**

Consistency of the Master’s Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)

Up to 10 points

**Statement of Research Interest**

Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests

Up to 5 points

**Scientific publications**

Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings

Up to 5 points

### ORAL EXAM

**EVALUATION CRITERIA**

The ORAL EXAM will focus on the candidate’s motivation to attend the PhD, on the description of his specific research interests and on a discussion of the qualifications presented by the candidate.

- **knowledge of foreign languages**: 10 points
- **general knowledge of issue connected to the Master’s thesis**: 25 points
- **general knowledge of issues connected to the PhD course**: 25 points

Up to 60 points

### LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

**Positions reserved to holders of scholarship within specific international mobility programs**

**Curriculum Vitae et studiorum**

Including academic career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark

Up to 50 points

**Graduation mark**

Score related to the final mark:
- 110 with honors (magna cum laude): 20 points
- 110: 16 points
- From 105 to 109: 12 points
- From 100 to 104: 8 points
- From 95 to 99: 4 points
- Under 95: 0 points

Up to 20 points

**Graduation thesis**

Consistency of the Master’s Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)

Up to 30 points

**Statement of Research Interest**

Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests

Up to 10 points

**Pubblicazioni scientifiche**

Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings

Up to 10 points
<table>
<thead>
<tr>
<th>ORAL EXAM</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>DATE</strong></td>
<td>5 December 2022</td>
</tr>
<tr>
<td><strong>TIME</strong></td>
<td>02:30 PM (Italian Time)</td>
</tr>
</tbody>
</table>
| **PLACE** | AULA C  
CHEMISTRY BUILDING  
Department of Chemistry, Life Sciences and Environmental Sustainability  
Parco Area delle Scienze, 17/A – Campus  
43124 PARMA - ITALY |
| **OTHER INFORMATION** | For foreign candidates, the admission examinations may be held in English at the candidate’s choice. |
# FOOD SCIENCE

<table>
<thead>
<tr>
<th>CYCLE</th>
<th>XXXVIII</th>
</tr>
</thead>
</table>
| COORDINATOR | Prof.ssa Chiara DALL’ASTA  
Food and Drug Department  
email: chiara.dallasta@unipr.it |
| DURATION | 3 years |
| STARTING DATE OF THE PHD PROGRAM | 01/01/2023 |

**RESEARCH TOPICS** (The candidate **MUST mandatorily** indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- Untarget approaches for the assessment of food authenticity and safety
- Identification, Assessment & Mitigation of Selected Emerging Food Contaminants
- Tailoring qualitative properties of foods by technology: use of innovative technologies for improving safety, quality and sustainability
- Investigation of in vivo endogenous and/or exogenous production of phenolic metabolites using (un)targeted metabolomics
- Evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets.
- Fertilizers from agrofood wastes to support a more sustainable agriculture

**TRAINING OBJECTIVES**

The PhD candidates will acquire advanced theoretical and practical expertise to provide innovative approaches and methodologies in the agro-food sector, under a multidisciplinary perspective.

**ADMISSION REQUIREMENTS**

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:

- Laurea specialistica or Laurea magistrale (second cycle master’s degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);
- Second cycle Master’s degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by **21.12.2022**

**POSITIONS PUT OUT TO COMPETITION**

<table>
<thead>
<tr>
<th>6</th>
<th>With Scholarship</th>
</tr>
</thead>
</table>

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>BOUND RESEARCH TOPIC</th>
</tr>
</thead>
</table>

**UNIVERSITÀ DI PARMA**

Via Università, 12 - 43121 Parma  
www.unipr.it  
40
1. PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)

Untarget approaches for the assessment of food authenticity and safety (VET04 – Food Hygiene)

Metabolomics is an innovative frontier in food safety and quality research. The PhD project will provide insights on how this method can help determine the chemical hazards present in foods of animal origin. Furthermore, the method will be applied as a way to overcome the classical tests based on target chemistry which are nowadays used in order to control the presence of residues of veterinary drugs in foods.

2. PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)

Identification, Assessment & Mitigation of Selected Emerging Food Contaminants (CHIM10 – Food Chemistry)

The project aims to combat emerging chemical hazards in food chains through the development of cutting-edge identification/assessment methodologies. Industrial case-studies will cover i.e. emerging natural toxins, unregulated process contaminants, and adulterants in the food production chain.

3. PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)

Tailoring qualitative properties of foods by technology: use of innovative technologies for improving safety, quality and sustainability (AGR15 – Food Technology)

The objective of this PhD program is to investigate and apply innovative technologies on different food categories for improving several qualitative aspects of foods (safety, sustainability as well as sensorial, technological, functional and nutritional).

4. PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)

Investigation of in vivo endogenous and/or exogenous production of phenolic metabolites using (un)targeted metabolomics (MED49 – Human Nutrition)

The aim of the project is to investigate the prevalence of endogenous phenolic metabolites in comparison to their exogenous production, using (un)targeted metabolomics.

5. PhD scholarship funded within the PNRR research program called "ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods" related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)

Evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets (MED49 – Human Nutrition)

The student will be required to participate in research related to the evaluation, development and application of educational and empowerment models aimed at promoting healthy and sustainable diets, in specific target populations. Such models will be developed with the support of advanced and
innovative technological tools and systems for the evaluation of user perceptions and with the involvement of key stakeholders in the field of the agri-food system.

**Fertilizers from agrofood wastes to support a more sustainable agriculture**

Using a multidisciplinary approach, the project is aimed at characterising different biochar categories obtained from agro-food wastes, and to evaluate their effects in term of quality and yield performance of selected crops.

| 1 | PhD scholarship funded within the PNRR research program called “ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods” related to the notice Extended partnerships Investment 1.3 creation of "Partnerships extended to universities, research centers, companies for the financing of basic research projects" - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001) |

### ADMISSION PROCEDURES

<table>
<thead>
<tr>
<th>Assessment of QUALIFICATIONS:</th>
<th>up to 30 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a minimum score of 18 points shall be required to be admitted to the Oral Exam)</td>
<td></td>
</tr>
</tbody>
</table>

**ORAL EXAM:** up to 90 points

**Minimum score for ELIGIBILITY:** 70/120

### Foreign Language

- Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.
- The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific test.
- For foreign candidates, basic knowledge of **ITALIAN LANGUAGE** will also be assessed.

**APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

**THE INTERVIEW MAY BE HELD ALSO IN ENGLISH**

### LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

**MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION**

**ANNEX A**

(art. 5 of the Competition notice)

- **Identification Document**
  - Scanned Copy of a valid identity document with photo (i.e. identity card, passport)

- **Curriculum Vitae et studiorum**
  - No specific CV format is required (see art. 4 of the Competition notice)

- **Abstract of degree thesis**
  - Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)

- **Qualifications**
  - Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice):
    - University that granted the degree - Type of degree (first cycle/second cycle/single cycle)
    - Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

- **Research Project**
  - The research project shall consist of a maximum of 2 pages, be written in Italian or in English, focused on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project) concerning one of the specific topic indicated in this...
notice and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation.

The research project does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.

| FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English) |
| Statement of Research interest | Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate’s reasons to attend the PhD program and at describing her/his specific research interests |
| Scientific Publications | Articles and/or reviews in scientific journals with peer reviewing, scientific book chapters with national or international circulation. The explicit indication of the candidate’s contribution to the works presented for evaluation is a necessary requirement. |
| Reference Letters | Maximum no. 1 letter written by experts in the research areas working in public or private research institutions. It must be sent directly by the signatory to the e-mail address: foodsciencephd@unipr.it. The submission by the candidate himself will not be accepted. |
| Other Academic qualifications | First or second level Master’s degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program |
| Other experiences (training, work, research, teaching, etc.) | – Language proficiency certificates  
– Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)  
– Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) |

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark. The marks of the exams and the graduation mark and the consistency of the Master’s Degree thesis with the doctoral program research topics will be the most relevant element of the evaluation.</td>
<td>Up to 22 points</td>
</tr>
<tr>
<td>Statement of Research Interest</td>
<td>Originality and motivation to research</td>
<td>Up to 2 points</td>
</tr>
</tbody>
</table>
| Scientific publications | International peer-reviewed papers: up to 2 points  
National peer-reviewed papers: up to 1 point  
Book chapters: up to 1 point | Up to 3 points |
| Reference Letters | Attestation of motivation and aptitude for the research | Up to 2 points |
| Other Academic qualifications | in subjects related to the research areas of the PhD course | Up to 1 point |
| Other experiences | Aptitude to research activity and congruence with the research topics and the objectives of the PhD course | Up to 2 points |

The Research Project will be evaluated during the Oral Exam

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
</table>
### SCHEDULE OF THE ADMISSION EXAMS

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th>DATE</th>
<th>5 December 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TIME</td>
<td>10:00 AM (Italian Time)</td>
</tr>
</tbody>
</table>
|           | PLACE         | Food and Drug Department
Parco Area delle Scienze, 27/A – Campus
43124 PARMA - ITALY |
| OTHER INFORMATION | | For foreign candidates it is possible to carry out the admission examination exclusively in English, after checking the basic knowledge of ITALIAN LANGUAGE. For Italian candidates it will be possible to take the admission examination in Italian or in English at the candidate’s choice. |
### JURIDICAL SCIENCES

<table>
<thead>
<tr>
<th>CYCLE</th>
<th>XXXVIII</th>
</tr>
</thead>
</table>
| COORDINATOR | Prof. Fabio Salvatore CASSIBBA  
email: fabiosalvatore.cassibba@unipr.it  
Department of Law, Politics and International Studies |
| DURATION   | 3 years |
| STARTING DATE OF THE PHD PROGRAM | 01/01/2023 |
| PARTNER INSTITUTION | University of Modena e Reggio Emilia |

#### RESEARCH TOPICS
(The candidate **MUST mandatorily** indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- INTERNATIONAL LAW (IUS/13)
- EUROPEAN UNION LAW (IUS/14)

#### TRAINING OBJECTIVES

The project of the doctoral course in Law Sciences is developed by a plurality of higher education activities, throughout the three-year period and divided into various types.

First of all, the PhD program intends to enhance - from the first year - interdisciplinary / multidisciplinary / transdisciplinary activities, through the provision of various courses, concerning topics of general or transversal legal interest. The related courses (some delivered exclusively in English) will be held by 1st and 2nd level professors and by RTD-B researchers, as well as by experts from the various scientific disciplinary sectors involved, so as to favor the acquisition of skills and professionalism truly adequate for the objectives. Training courses, on a methodological level, on that of reasoning and analysis in the legal field, of the in-depth knowledge required at the level of professional opportunities. In addition, the aim is improving the linguistic skills of doctoral students in the legal field. These didactic activities will take place - in particular although not exclusively - in the first year of the doctorate, in order to allow the PhD students, on one hand, to acquire a solid and interdisciplinary "initial" training, also on the methodological profiles and tools necessary for research; on the other hand, to give them the opportunity in subsequent years to improve their skills in specific disciplinary sectors, also through periods of stay abroad, in view, then, of the drafting of the doctoral thesis. The PhD course also provides for strengthening the theoretical skills of the students through the conduct of lessons (also in a foreign language) on legal issues related to the individual scientific disciplinary sectors referable to “Area 12”/Law Science), held by 1st or 2nd level professors. o by RTD-B researchers Italian or foreign, as well as by experts in the field, including foreigners. Finally, the doctoral course intends to enrich the training of PhD students, encouraging their participation in conferences, study meetings, seminars (typically, although not exclusively, organized or sponsored by universities, including foreign ones, and by national or international research bodies), also abroad, which from time to time will be accredited as moments of common, interdisciplinary or sector teaching.

#### ADMISSION REQUIREMENTS

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:

- Laurea specialistica or Laurea magistrale (second cycle master's degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations)
- Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is **by 21.12.2022**
## Positions Put out to Competition

<table>
<thead>
<tr>
<th>Numbers</th>
<th>Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>With Scholarship</td>
</tr>
</tbody>
</table>

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

### Funding Entity and Bound Research Topic

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>Bound Research Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PhD scholarship funded within the PNRR research program called &quot;ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods&quot; related to the notice Extended partnerships Investment 1.3 creation of &quot;Partnerships extended to universities, research centers, companies for the financing of basic research projects&quot; - Notice 341 of 15/03/2022 - funded by the European Union – NextGenerationEU (Cup Code D93C22000890001)</td>
<td>INTERNATIONAL LAW (IUS/13)</td>
</tr>
</tbody>
</table>

The research project is related to the International Law and/or European Union Law principles and rules about food sustainability, with particular focus on: soil and water wasting, waste cycle, biodiversity and climate change.

Key-words: fight against food wasting; integrated approach about sustainability and human rights

### Admission Procedures

**Assessment of Qualifications:** up to 70 points  
(a minimum score of 35 points shall be required to be admitted to the Oral Exam)  
**Oral Exam:** up to 50 points  
**Minimum score for Eligibility:** 70/120

**Foreign Language**

Language the fluency of which shall be assessed during the Oral Exam: **English**.  
The evaluation of the knowledge of this language will be oral and will consist in translating of a scientific text etc.

**Candidates Admitted to the Oral Test Can Take the Exam in Presence.**  
The oral examination could be done by remote in case of Covid-19 Virus quarantine and in the case in which the candidate is out of the Region or out of Italy due to work/study reasons. The candidates who intend to attend the oral exam by remote shall present a justified request consistent to the form alleged to the competition notice. Even the Evaluation Board could attend the oral session by remote, due to celerity reasons.

### List of Qualifications to Be Submitted and Their Assessment

**Mandatory Documents to be Attached to the On-line Application**

**Annex A**  
(art. 5 of the Competition notice)

**Identification Document**  
Scanned Copy of a valid identity document with photo (i.e. identity card, passport)

**Curriculum Vitae et studiorum**  
No specific CV format is required (see art. 4 of the Competition notice)

**Abstract of degree thesis**  
Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications

Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice):
- University that granted the degree
- Type of degree (first cycle/second cycle/single cycle)
- Name of the degree program
- Date of graduation
- Final mark
- List of exams and corresponding scores (academic transcript of records)
- Translation into Italian or English (only for degrees issued in languages other than Italian or English).

Research Project

Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project).

It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.

Further Qualifications that May be Attached to the Application, If in Possession of the Applicant

(only qualifications attested by a document drawn up in Italian or in English)

Scientific Publications

Monographs, articles in scientific journals, chapters in collective volumes (uniquely referable to the candidate).

Other Academic Qualifications

First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program

Other Experiences (Training, Work, Research, Teaching, etc.)

- Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units
- Working activity
- Professional and/or training internship
- Language proficiency certificates
- Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)
- Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)

EVALUATION CRITERIA

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</td>
<td>Up to 33 points</td>
</tr>
<tr>
<td>Graduation mark</td>
<td>Score related to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points</td>
<td>Up to 5 points</td>
</tr>
<tr>
<td>Average of the exam marks (if the candidate will attain the degree no later than 21 December 2022)</td>
<td>Score related to the average of the exam marks: - 30/30: 5 points - From 27/30 to 29/30: 3 points</td>
<td>Up to 5 points</td>
</tr>
<tr>
<td>Graduation thesis</td>
<td>Congruence with the research topics of the PhD course for the scientific disciplinary sectors available for competition</td>
<td>Up to 2 points</td>
</tr>
<tr>
<td>Research Project</td>
<td>Points relating to the research project: o methodological rigor: max 10 points o originality: max 8 points o consistency with the topics of the scientific disciplinary sector of reference: max 2 points</td>
<td>Up to 20 points</td>
</tr>
<tr>
<td>Scientific publications</td>
<td>Up to 5 points</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Other Academic qualifications</td>
<td>Up to 3 points</td>
<td></td>
</tr>
<tr>
<td>Other experiences</td>
<td>Up to 2 points</td>
<td></td>
</tr>
</tbody>
</table>

**ORAL EXAM EVALUATION CRITERIA**

The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course.

- presentation of the project: max 30 points
- preparation on the topics of the scientific disciplinary sector of reference for the project: max 20 points

**Points**

<table>
<thead>
<tr>
<th>SCHEDULE OF THE ADMISSION EXAMS</th>
</tr>
</thead>
</table>

**ORAL EXAM**

<table>
<thead>
<tr>
<th>DATE</th>
<th>6 December 2022 (with possible extension to 20 September 2022)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIME</td>
<td>01:00 PM (Italian Time)</td>
</tr>
</tbody>
</table>
| PLACE | "BANDIERA" CLASSROOM  
University of Parma - CENTRAL PALACE  
Via Università, 12  
43121 PARMA - ITALY |

**OTHER INFORMATION**

For foreign candidates it is possible to carry out the admission examination exclusively in English.
INFORMATION TECHNOLOGIES

<table>
<thead>
<tr>
<th>CYLE</th>
<th>XXXVIII</th>
</tr>
</thead>
</table>
| COORDINATOR | Prof. Marco LOCATELLI  
email: marco.locatelli@unipr.it  
Department of Engineering and Architecture |
| DURATION | 3 years |
| STARTING DATE OF THE PHD PROGRAM | 01/01/2023 |

RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)

- Electronics instrumentation and electrical drives
- Computer systems and automatic control
- Telecommunications and electromagnetic fields

TRAINING OBJECTIVES

The course aims at educating the future Ph.D.’s so that they will enter the research world with an active role, within both universities and industries.

ADMISSION REQUIREMENTS

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:

- Laurea specialista or Laurea magistrale (second cycle master’s degree)
- Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations);  
- Second cycle Master’s degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 21.12.2022

POSITIONS PUT OUT TO COMPETITION

<table>
<thead>
<tr>
<th>2</th>
<th>With Scholarship</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reserved to holders of scholarship within specific international mobility programs</td>
</tr>
</tbody>
</table>

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

<table>
<thead>
<tr>
<th>N°</th>
<th>Funding entity</th>
<th>BOUND RESEARCH TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scholarship financed by the Department of Engineering and Architecture (funds Project HORIZON Europe n. 101080128 “Quantum Internet Alliance (QIA)”</td>
<td>Study and development of compilation and execution management services for distributed quantum computing</td>
</tr>
</tbody>
</table>

Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIFIC INTERNATIONAL MOBILITY PROGRAMS

<table>
<thead>
<tr>
<th>N°</th>
<th>Agreements/Cooperations/Mobility Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reserved to holders under the Agreement with INES-RUHENERGI, Institute of Applied Sciences, Ruhengeri, Rwanda</td>
</tr>
</tbody>
</table>
## Admission Procedures

**Assessment of Qualifications**: up to 70 points  
(a minimum score of 30 points shall be required to be admitted to the Oral Exam)  
**Oral Exam**: up to 50 points  
**Minimum score for Eligibility**: 70/120

### Foreign Language
Language the fluency of which shall be assessed during the Oral Exam: **English**.  
The evaluation of the knowledge of this language will be oral and will consist of a brief interview on a technical topic (for example a translation of a scientific text).

**Candidates admitted to the Oral Exam can take the exam in presence or remotely in audio and video teleconference**  
(Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)

**The Interview may be held also in English**

## List of Qualifications to be Submitted and Their Assessment

### Mandatory Documents to be Attached to the On-line Application

#### Annex A
(art. 5 of the Competition notice)

<table>
<thead>
<tr>
<th>Identification Document</th>
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<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>No specific CV format is required (see art. 4 of the Competition notice)</td>
</tr>
<tr>
<td>Abstract of degree thesis</td>
<td>Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10,000 characters including spaces)</td>
</tr>
</tbody>
</table>

#### Qualifications

- Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) - Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

#### Research Project

Max 10,000 characters, written in English, it will have to focus on an original research topic and structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board. However, this project must be prepared after having contacted and consulted one of the research groups related to the PhD course in Information Technologies (information on the research groups and their contacts can be found at [https://dia.unipr.it/en/node/3080](https://dia.unipr.it/en/node/3080)). Failure to submit the project will result in exclusion from procedure for admission to the course.

### Further Qualifications that May be Attached to the Application, if in Possession of the Applicant

(only qualifications attested by a document drawn up in Italian or in English)

<table>
<thead>
<tr>
<th>Scientific Publications</th>
<th>Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Letters</td>
<td>Maximum 2 letters and must be sent directly by the signer to the address e-mail: <a href="mailto:marco.locatelli@unipr.it">marco.locatelli@unipr.it</a> (The candidate, therefore, must not upload them through the procedure of the competition online registration)</td>
</tr>
</tbody>
</table>
### Other experiences
(training, work, research, teaching, etc.)

- Periods of study abroad, outside the country of origin (e.g., Erasmus programme or other similar mobility programmes)
- Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)

### EVALUATION CRITERIA

<table>
<thead>
<tr>
<th>QUALIFICATION</th>
<th>EVALUATION CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae et studiorum</td>
<td>Evaluation of the marks of the exams and of the master's degree mark (if available). The candidate is required to provide the average of the marks of all the exams of the master's degree, in addition to the details of the same. It will also be evaluated the congruence of the degree obtained with the PhD themes.</td>
<td>Up to 25 points</td>
</tr>
<tr>
<td>Abstract of the Master's degree thesis</td>
<td>It will be evaluated the congruence of the Master’s Degree thesis with the doctoral program research topics.</td>
<td>Up to 5 points</td>
</tr>
</tbody>
</table>
| Research Project | Points relating to the research project shall be allocated on the basis of the following criteria:  
  o Scientific value and originality of the proposal: max 10 points  
  o description and structure of the proposal: max 10 points  
  o proposal feasibility: max 10 points | Up to 30 points |
| Scientific publications | Evaluation of the editorial position of the publication and its impact on the scientific community on the basis of the available indicators. It will be evaluated only publications from the past five years. | Up to 5 points |
| Reference Letters | Evaluation of the judgments reported in the reference letters. | Up to 2 points |
| Other experiences | Duration evaluation (for scholarships and internships), score (for the GRE test), prestige (for awards) | Up to 3 points |

### ORAL EXAM

<table>
<thead>
<tr>
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<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course</td>
<td>Up to 50 points</td>
</tr>
</tbody>
</table>

- knowledge of the foreign language: max 5 points
- research project presentation: max 25 points
- general knowledge of issues connected to the PhD course: max 20 points

### SCHEDULE OF THE ADMISSION EXAMS

<table>
<thead>
<tr>
<th>ORAL EXAM</th>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
</table>
|           | 5 December 2022 | 04:00 PM (Italian Time) | Department of Engineering and Architecture  
Scientific Engineering Headquarters  
Parco Area delle Scienze, 181/A – Campus Universitario  
43124 PARMA - ITALY |

### OTHER INFORMATION

For foreign candidates, the admission examinations may be held in English at the candidate’s choice. For foreign candidates all documents written in a language other than Italian will have to be translated into English, otherwise they will not be evaluated.