The three-year Ph.D. programme is proposed by the Department of Pharmacy and Biotechnology, a new Department of the University of Bologna that includes either the courses than the scientific knowledge of professors and researchers that are expert into two areas closed and integrated between them: biotechnology and pharmaceutical sciences. This Ph.D. programme offers a third level of training for students possessing a background in these two areas. The aim is to train researchers of high ranking expertise and with a strong scientific background that will be capable to plan and carry out researches in the biotechnology and pharmaceutical fields. Students enrolled in the Ph.D. programme will go more depth in different areas of biotechnology to know biological complex processes at cellular and molecular level, or to study their endogenous products or byproducts obtained through DNA recombinant technology and in the discovery, synthesis, characterization and analysis of novel drugs, including those obtained through biotechnology. Ph.D. students will employ the most advanced methodology, including bioinformatics and biocomputational approaches, chemogenomics, analytical and proteomic approaches applied to the pharmaceutical analysis and to the discovery and delivery of novel drugs. Ph.D. students can also develop technologies useful in the field of microbial fermentation and in the use of microbial enzymes in bioconversion processes. The Ph.D. programme is distinguished by an interdisciplinary approach and by a relevant transversality of the key research fields of the academic staff. The goal of this Ph.D. programme is to favor the enrollment of the Ph.D. graduates in companies in the biotechnology and pharmaceutical areas or in the field of the food production, microbial fermentation and other industrial processes requiring a knowledge in the biotechnology field.

Admission requirements

Applicants of any Country and age holding a Master’s degree (second cycle) can submit their application. Such degree must be either:
- an Italian university degree (laurea specialistica/magistrale - 3+2 years or combined degree BA+MA);
- an Italian university degree pre-reform system (“vecchio ordinamento”);
- academic degree awarded by the Italian institutions belonging to the AFAM sector (Alta Formazione Artistica e Musicale);
- an academic Master’s degree obtained abroad, comparable to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral programmes.

Applicants whose degree are to be awarded after the deadline of the call can participate in the selection but the admission is conditional on obtaining the Masters’ degree by 31/10/2015.

Documents to be attached mandatorily

- Copy of a valid ID with photo;
- Curriculum Vitae in English;
- Degree transcripts of both BA/BSc and MA/MSc:
  - for degrees obtained in Italy, please submit a signed self-declaration (autocertificazione);
  - for degrees obtained in non-EU countries, please submit the degree certificate issued by the relevant University;
  - for degrees obtained in EU countries (except Italy), either self-declaration or certificate, at the applicant's choice.

Such document must, in any case, contain the following information:
- personal data
- University details
- degree name
- final score
- transcript of results

For degree transcripts from outside Italy, an official translation into Italian or English must be attached.

Graduands have to submit the document(s) as above except for the Master’s degree.

Graduands must submit a self-declaration of the scores’ weighted average.

- Graduation Master’s thesis or, for graduands, graduation Master’s thesis’ draft approved by the Supervisor (min 5.000 characters, including spaces and formulas if any; excluding title, index, bibliography and pictures and illustrations, if any)
- At least one and no more than two letters of reference from national or international academic referees and/or research professionals (not UniBo Boards members) declaring the applicant’s research interests and skills. Such letters have to be exclusively uploaded by the referee on http://studenti.unibo.it, following the instructions provided, not later than 7 days after the call deadline.

- Statement of purpose (max 3.000 characters, spaces included), concerning motivations, experiences and research interests by the applicant.

Other attachments, if any

- All non-English or Italian documents will not be evaluated by the Admission Board, unless translated in one of these two languages.

- Graduation Master’s thesis or, for graduands, graduation Master’s thesis’ draft approved by the Supervisor (min 5.000 characters, including spaces and formulas if any; excluding title, index, bibliography and pictures and illustrations, if any)
- At least one and no more than two letters of reference from national or international academic referees and/or research professionals (not UniBo Boards members) declaring the applicant’s research interests and skills. Such letters have to be exclusively uploaded by the referee on http://studenti.unibo.it, following the instructions provided, not later than 7 days after the call deadline.

- Statement of purpose (max 3.000 characters, spaces included), concerning motivations, experiences and research interests by the applicant.
- List of publications (monographs, articles on scientific magazines, etc);
- List of other publications (conference proceedings distributed at national and international level, contributions in monographs, etc.);
- List of abstracts and posters presented in national and international conferences;
- Research experience;
- Mobility experience abroad (such as Erasmus and similar)
- Any other document certifying the applicant’s excellence (prizes, fellowships and grants).

Entrance examinations

<table>
<thead>
<tr>
<th>Examinations</th>
<th>Timetable (applicants will not receive any further communication)</th>
<th>Publication of results (no personal written communication shall be provided to applicants concerning the examinations results)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation of qualifications</td>
<td>Applicants’ presence is not requested</td>
<td>The evaluation of qualifications results will be available on 03/09/2015 on <a href="http://studenti.unibo.it">http://studenti.unibo.it</a> (select: sintesi delle richieste in corso → vedi dettaglio).</td>
</tr>
</tbody>
</table>

When

10/09/2015
Please note that the oral examinations might take more than one day. In this case the relevant timetable will be published on http://studenti.unibo.it together with the evaluation of qualifications results.

Where

Bologna - Via Irnerio 48
Dept of Pharmacy and Biotechnology
Ground floor - Room A

Time

10:00 CET

The oral examinations results will be available both in paper copy on the Department bulletin board and, starting from 11/09/2014 on http://studenti.unibo.it (select: sintesi delle richieste in corso → vedi dettaglio).

For applicants residing abroad, the oral examination can be conducted at a distance through video-conference based on the IP protocol (such as through Skype with webcam). Applicants must clearly indicate such choice and provide their own ID when applying for the call. The request must, nonetheless, be approved by the Admission Board which will make sure that the examination is carried out correctly and upon verification of the identity of each applicant.

A specific timetable regarding distance oral examinations will be available on http://studenti.unibo.it together with the results confirming the admission to such examination.

Assessment criteria

Scores will be expressed in points out of 100, as follows:

1. Evaluation of qualifications
   - Minimum score required for the admission to the oral examination: 30 points
   - Maximum score: 50 points
   Only qualifications and documents consistent with the research topics and no older than 5 years (up to the deadline of this call for applications) - Bachelor's and Master's degrees excluded - will be taken into consideration.
   Score will be assigned as follows:
   - Evaluation of the degree mark (for applicants who have a university degree at the time of the call deadline) and scores' weighted average of marks (BA + MA) related to all the taken exams by the call deadline (for applicants who at the time of the call deadline are graduands): max 20 points;
   - Graduation thesis (or draft of the graduation thesis approved by the Supervisor): max 20 points;
   - Publications: max 5 points;
   - Research experience and other qualifications: max 5 points.

2. Oral examination
   - Minimum score: 30 points
   - Maximum score: 50 points
   The oral examination will assess the applicant's aptitude for scientific research, as well as her/his knowledge on the research topics related to the doctoral programme.
   During the oral examination, the applicant’s knowledge of English will be assessed.
   The oral examination can be held either in Italian or English, depending on the applicant’s choice.
   Scores will be assigned according to the following criteria:
   - knowledge of foreign language (English): max 5 points
The Admission Board might add other sub-criteria before the assessment process. In this case, a proper announcement will be posted on [http://studenti.unibo.it](http://studenti.unibo.it).

### Final ranking list and enrolment

The final ranking list will be published on [http://studenti.unibo.it](http://studenti.unibo.it). No personal written communication shall be provided to applicants concerning the final results and the deadlines for enrolment. Selected applicants will have to enrol by the date indicated in the ranking list.

### Positions and scholarships

<table>
<thead>
<tr>
<th>Total available positions (no. with scholarship + no. without scholarship)</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positions with scholarship financed by University of Bologna</td>
<td>4</td>
</tr>
<tr>
<td>Positions with scholarship dedicated to specific research topics <strong>Note:</strong> During the oral examination, applicants can express their interest for such scholarships. The Admission Board will determine the eligibility for such assignment by evaluating the applicants’ specific skills, experience and competences</td>
<td>3 financed by the Foundation “Italian Institute of Technology” and dedicated to research activity on “Drug Discovery”</td>
</tr>
</tbody>
</table>