

**SUBJECT: Public competition for admission to PhD courses - XXXVI cycle - academic year 2020/2021**

### **THE RECTOR**

<b>CONSIDERING</b>	Law n. 210 of July 3, 1998, art. 4;
<b>CONSIDERING</b>	Law n. 240 of December 30, 2010, art. 19;
<b>CONSIDERING</b>	the Ministerial Decree n. 45 of February 8, 2013;
<b>CONSIDERING</b>	the University of Pavia Statute;
<b>CONSIDERING</b>	the University of Pavia "Regulations for PhD courses" n. 1223 of July 24, 2013;
<b>CONSIDERING</b>	the Ministerial Decree n. 40 of January 25, 2018;
<b>CONSIDERING</b>	the "Technical report on the activation of the PhD courses – XXXVI cycle" issued by the Internal Evaluation Unit;
<b>CONSIDERING</b>	the resolution of the Academic Senate of March 16, 2020;
<b>CONSIDERING</b>	the resolution of the Administrative Council of March 24, 2020;
<b>CONSIDERING</b>	the need to issue the call for applications for public competitions to be admitted to the PhD courses, XXXVI cycle, administered by the University of Pavia

### **DECREES**

#### ***Art. 1*** ***Activation***

1. The University of Pavia hereby announces public competitions for admission to the XXXVI cycle (academic year 2020/2021) of PhD courses, listed below according to their macro-areas:

<b>MACRO-AREA OF SCIENCE AND TECHNOLOGY</b>	
<b>1</b>	BIOENGINEERING, BIOINFORMATICS AND HEALTH TECHNOLOGIES
<b>2</b>	COMPUTATIONAL MATHEMATICS AND DECISION SCIENCES in cooperation with the University of Italian Switzerland (USI)
<b>3</b>	DESIGN, MODELING AND SIMULATION IN ENGINEERING
<b>4</b>	PHYSICS
<b>5</b>	ELECTRONICS, COMPUTER SCIENCE AND ELECTRICAL ENGINEERING
<b>6</b>	MICROELECTRONICS
<b>7</b>	CHEMICAL AND PHARMACEUTICAL SCIENCES, AND RELATED INDUSTRIAL INNOVATION
<b>8</b>	EARTH AND ENVIRONMENTAL SCIENCES
<b>MACRO-AREA OF LIFE SCIENCE</b>	
<b>9</b>	GENETICS, MOLECULAR AND CELLULAR BIOLOGY
<b>10</b>	EXPERIMENTAL MEDICINE
<b>11</b>	PSYCHOLOGY, NEUROSCIENCE AND DATA SCIENCE
<b>12</b>	BIOMEDICAL SCIENCES
<b>13</b>	TRANSLATIONAL MEDICINE
<b>MACRO-AREA OF HUMANISTIC AND SOCIAL SCIENCES</b>	
<b>14</b>	APPLIED ECONOMICS AND MANAGEMENT (AEM) in cooperation with the University of Bergamo
<b>15</b>	PRIVATE LAW, ROMAN LAW AND EUROPEAN LEGAL CULTURE
<b>16</b>	PUBLIC LAW, CRIMINAL AND INTERNATIONAL JUSTICE
<b>17</b>	ECONOMICS in cooperation with the University of Milano
<b>18</b>	SCIENCES OF THE LITERARY AND MUSICAL TEXT
<b>19</b>	HISTORY

2. In Annex 1 (p. 17 ff.), which forms an integral part of this call, for each course the location, course director, research topics, positions available, scholarships and other funding, name of the cooperating institutions and possible issue of double or joint degrees, selection procedure and qualifications assessed, admission test timetable and programs offered are specified. The PhD courses have a legal duration of three years, starting from October 1, 2020.
3. The PhD courses activation is subject to the completion of the accreditation procedure or to the verification of the requirements conservation by ANVUR. Therefore, the selections will be carried out only for the PhD courses that have received the accreditation or its confirmation by the Ministry.
4. The number of PhD positions mentioned in Annex 1 (p. 17 ff.) may be increased, with subsequent provisions, if additional funding from public institutions or qualified private organisations is made available. In any case, the deadline for applications will remain unchanged.
5. The funding provided by external entities will be assigned provided an agreement is reached between the University and the entity involved.
6. **This call for applications is equivalent to a notification to all intents and purposes. Further modifications, updates or additions to its content will be announced exclusively on the <http://phd.unipv.it/> website.**
7. The presentation of the application as outlined in art. 5 implies the acceptance by the candidate of the rules contained in this call for applications. Failure to respect these rules will result in the candidate being excluded from the competition.

## Art. 2

### Admission requirements

1. Applications are invited from candidates, regardless of age and nationality:
  - a. who hold an Italian *"diploma di laurea ante D.M. 509/1999 (vecchio ordinamento)/laurea specialistica/laurea magistrale"*, or an equivalent second-level degree issued by an AFAM (*Alta Formazione Artistica e Musicale*) institution;
  - b. who hold an academic degree awarded abroad and recognised by the Academic Board as being eligible for the selected PhD competition purpose only. Such degree must be comparable to an Italian second-level degree in terms of duration, level and disciplinary field. During the application procedure, candidates will be asked to upload, in addition to the qualifications required for the specific PhD course, the following documents, in order for their foreign degree to be recognised as eligible:
    - i. in case of italian and EU citizens: self-declaration, pursuant to D.P.R. 445/2000 and subsequent modifications, of all their academic degrees, including the courses attended, the marks received and the legal duration of the degree courses;
    - ii. in case of non-EU citizens: certificates of all their university degrees, in Italian or English, including the courses attended, the marks received and the legal duration of the degree courses. In case of certificates in a language different from Italian or

English candidates will have to submit, together with the certificates, their sworn and legalized translation into Italian or English.

- iii. any other document relevant to the assessment of a degree's eligibility, such as a Diploma Supplement or Dichiarazione di Valore in Loco.

The candidate may be required at any time to submit further documents, in order to verify the eligibility of his/her degree;

- c. who expect to receive the degree mentioned in para. a and b no later than October 31, 2020. **Failure to attain the degree within October 31, 2020 will result in candidates being excluded from the PhD course.** Such candidates, if successful, will be conditionally admitted and enrolled in the PhD course and will be required to submit by e-mail ([concorso-dottorati@unipv.it](mailto:concorso-dottorati@unipv.it)) to the University administration office, no later than October 31, 2020:
  - i. in case of degree attained in Italy: a self-declaration, conforming to the model available at [phd.unipv.it/call-36/](http://phd.unipv.it/call-36/), testifying they have attained the degree, together with copy of a valid identity document;
  - ii. in case of degree attained abroad:
    1. in case of italian or EU citizens: a self-declaration, conforming to the model available at [phd.unipv.it/call-36/](http://phd.unipv.it/call-36/), testifying they have attained the degree, together with copy of a valid identity document;
    2. in case of non-EU citizens: a certificate in Italian or English language testifying the degree attainment. In case of certificates in a language different from Italian or English candidates will have to submit, together with the certificates, their sworn and legalized translation into Italian or English.
2. Applications from candidates already enrolled in a PhD course at the University of Pavia will not be accepted.

### Art. 3

#### **Additional PhD reserved to candidates employed by companies, institutes or public research centres in highly qualified positions and additional PhD positions in higher-education apprenticeships**

1. Employees of companies, institutes or public research centres in highly qualified positions may undertake, while keeping their job position and stipend, a PhD course. Such candidates' training objectives and research activities are arranged between the University and the company, institute or public research centre by means of a specific agreement. A separate ranking list is drawn up for these candidates. The agreement between the University and the company must be formalised no later than August 31, 2020. It will specify, among other things, the conditions and nature of the research to be carried out at the company, institute or public research centre and the division of the employee's time.

2. If the conditions exist, it is possible to establish PhD positions in apprenticeships with companies. This type of contract allows graduates aged up to 29 years to enrol in a PhD course and get simultaneously employed by a company. A separate ranking list is drawn up for these candidates. A member of the company will take part in the selection procedure for these positions. The Committee will examine, at the end of the interview, also the research topics proposed by the company. These positions will be activated provided that the company identifies a candidate suitable for their needs and that an agreement is formalised by August 31, 2020, specifying, among other things, the conditions and nature of the research to be carried out at the company, institute or public research centre and the division of the employee's time.
3. Candidates interested in these positions must select the appropriate administrative category during the application procedure, if available for their chosen PhD course.

#### **Art. 4**

**Additional positions reserved to candidates with a scholarship from a foreign country,  
additional positions reserved to candidates holding a scholarship  
from a specific international mobility program,  
additional positions with scholarship reserved to candidates who graduated abroad**

1. The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions. Applications for the "Additional positions reserved to candidates with a scholarship from a foreign country" and the "Additional positions reserved to candidates holding a scholarship from a specific international mobility program" will be subject to a check by the University administration on the actual availability of the funding whose ownership is declared by the candidate. Candidates will be selected through a qualification assessment and, unless otherwise specified in Annex 1 for the specific PhD course, will also undertake an interview via videoconference, aimed at verifying candidates' competence, ability and aptitude for research as well as their knowledge of Italian and/or English. Candidates must select the appropriate administrative category, if available for their chosen PhD course, during the application procedure. The examining committee will draw up specific reports and separate ranking lists.
2. "Additional position with scholarship reserved to candidates graduated abroad" are reserved to candidates holding a second-level university degree attained abroad. Candidates will be selected through a qualification assessment and an interview via videoconference. Candidates must select the appropriate administrative category, if available for their chosen PhD course, during the application procedure. The examining committee will draw up specific reports and a separate ranking list. In case no candidate is suitable for such position, the scholarship will be assigned to the candidate suitable for regular positions without scholarship, using the ranking order as the criterion for assignment.

## Art. 5 Applications

1. Candidates who wish to participate in a PhD competition at the University of Pavia have to **apply online** by the deadline of **June 24, 2020 at 17:00 pm (CET)**. **Applications can only be made via the online procedure in the candidates' Personal Area** at the following link: [https://studentionline.unipv.it/esse3/Home.do?cod\\_lingua=eng](https://studentionline.unipv.it/esse3/Home.do?cod_lingua=eng).

Applications submitted via any other means will not be considered. Candidates are responsible for ensuring that their application has been completed accurately and in full; complaints related to the malfunctioning of the online procedure will not be accepted. Candidates are highly recommended to complete the online application well in advance of the application deadline.

Candidates must **pay the application fee**, amounting to **€ 35.00, by June 24, 2020**. **Failure to pay the admission fee by the deadline will result in candidates being excluded from the competition**. **Under no circumstances will the admission fee be refunded**. Candidates applying for the "Additional positions reserved to candidates holding a scholarships from international mobility programs" are exempted from the application fee.

2. For the first year of PhD program (academic year 2020/2021), the University makes available to PhD students residing abroad 50 accommodations free of charge at the EdiSU students' residences. The remaining places will be assigned, until they are all taken, based on criteria of merit and distance between the student's residence and the University, set by the School of Advanced Doctoral Training. Candidates who wish to be considered for assignment will have to apply for it by filling the appropriate request during the online application for the PhD competition; such request can no longer be modified once the online application is concluded.
3. Candidates must be registered on the Esse3 system in order to access the online procedure. Candidates who have yet to register must select the "Registration" tab and insert the requested data; then, by selecting the "Login" item and entering the username and password provided by the system, they will be able to access their Personal Area and apply for the PhD competitions.

Candidates who have already registered on the University of Pavia website must select only the "Login" tab and access the Personal Area by entering the username and password already in their possession. **Candidates are requested to check and update their personal information already present in the database, in particular the residence and the e-mail address which will be used for all communications related to the PhD competition.**

In order to submit the application, candidates have to select the "Admissions" item from the top right menu, then, from the same menu, the "Admission test" item, and then the PhD competition in which they would like to take part.

During the application procedure, candidates must:

- enter the information regarding their degree course and the details of a valid identity document; a copy of the same identity document will have to be uploaded during the application procedure and also presented on the day of the tests for identity purposes;

- choose the PhD competition, the appropriate administrative category and the foreign language, from those listed in Annex 1 for each PhD course, whose knowledge will be verified during the interview;
- request to take the interview via videoconference, only if Annex 1 of the call for applications allows this option for the chosen course. Such request can no longer be modified once the online application is concluded;
- request to be considered, for the first year of PhD program (academic year 2020/2021), for the assignment of an accommodation free of charge at the EdiSU students' residences, according to the criteria indicated in para. 2 of this article. Such request can no longer be modified once the online application is concluded;
- enter the name and e-mail address of the chosen referee/s, in case the reference letter/s is/are included among the qualifications assessed for the selected PhD competition (see Annex 1, p. 17 ff.);
- attach, via an upload, proof of the qualifications required for their chosen PhD competition (see Annex 1, p. 17 ff.) and the identity document whose details were entered during the procedure.

Qualifications and documents must be attached as .pdf files and must not exceed 5MB each. Each file's denomination must bear the candidate's surname e the type of the qualification (e.g. surname\_curriculumvitae).

Candidates will have to prove they are in possession of the qualifications<sup>1</sup> issued by the Public Administration by means of a self-declaration, pursuant to art. 46 of D.P.R. 445/2000. The self-declaration must be duly dated and subscribed. The self-declaration regarding the exams taken must conform to the model available at [phd.unipv.it/call-36/](http://phd.unipv.it/call-36/) or, if available, it can be downloaded from the website of the institution where the degree was awarded. The self-declaration must bear the exams taken, the marks, the CFU (credits), the arithmetic mean of the marks obtained in the exams (if required), and the final mark, if the degree has already been attained. **Non-EU applicants in possession of qualifications awarded by a non-Italian institution cannot submit a self-declaration, but must attach to the application a copy of the relevant certificates.**

**A self-declaration uploaded in the application portal, to be valid and hence considered for evaluation by the Committee, must be signed with one of the following modalities:**

- digital signature (CAD)
- original signature on a paper document, then scanned

**and accompanied by a copy of a valid identity document. In the absence of one of these features, the document will be invalid.**

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<sup>1</sup> Pursuant to D.P.R. n. 445 of December 28, 2000 and subsequent modifications, Italian and EU citizens must provide a self-declaration attesting the following conditions and facts certified by the Italian Public Administration:

- a. enrolment in professional organisations or on lists managed by Italian Public Administration;
- b. membership of professional associations;
- c. qualifications and exams taken;
- d. professional qualifications, post-graduate qualifications, qualifying exams, training courses, refresher courses and technical qualifications;
- e. student status.

**The Committees will not consider for evaluation any of the following documents:** unsigned curriculum vitae; invalid self-declarations; certificates, copies of diplomas, diploma supplements issued by an Italian Public Administration. Certificates issued by private entities are considered as valid.

With the exception of the degree required for admission (see art. 2, para. 1), all further qualifications must have been obtained by the deadline for applications.

The examining committee will take into consideration only the qualifications listed in Annex 1 (p. 17 ff.) for each PhD course.

Candidates with a disability (under the provisions of Law n. 104 of February 5, 1992 integrated by Law n. 17 of January 28, 1999) or affected by a Specific Learning Disability (under the provisions of Law n. 170 of October 8, 2010) should make a specific request in their application for the necessary assistance and, if required, for extra time to complete the selection tests. Candidates with disabilities are required to submit a medical certificate issued by the competent health authorities via the medical committees. Candidates with Specific Learning Disabilities must submit an appropriate clinical certificate issued no more than three years before by the National Health Service. Regions where it is not possible to diagnose such disorders as part of the specialist treatments carried out by the National Health Service can commit, within the limits of their human, instrumental and economic resources, the same diagnosis to a specialist or accredited structure. The documents testifying the disability must be submitted to the Centro Servizio di Ateneo - Servizio di Assistenza e Integrazione per gli Studenti Disabili e con DSA "SAISD" (Assistance and Integration Service for Students with Disabilities or Special Learning Disabilities) at least 15 days before the test in one of the following ways:

- hand-delivery to the SAISD office during the opening times (available at <http://saisd.unipv.it/contact>);
- e-mail to [disabili@unipv.it](mailto:disabili@unipv.it), together with a copy of a valid identity document;
- fax to +39 0382/984954;
- registered letter with acknowledgement of receipt to: Centro Servizio di Ateneo - Servizio di Assistenza e Integrazione per gli Studenti Disabili e con DSA "SAISD" - P.zza Leonardo Da Vinci n. 16 – Pavia – Italy.

Based on the documents submitted by the candidate, the Vice-Rector for Disabilities and Special Needs, in coordination with the examining committee, will decide on the possible assistance and the extra time granted for the tests.

After the completion of the online application and before the deadline for applications (**June 24, 2020 at 17:00 pm, CET**), candidates will be able to:

- modify the data previously entered. **The modifications will be permanently saved provided that the candidate bring the full application again to a conclusion.** At the end of the application procedure, candidates will have to reprint the application form;
- add, cancel or modify the documents uploaded (qualifications and identity document) by using the "Enter/modify qualifications" button;

- add, cancel or modify the data of the chosen referee/s, in case the reference letter/s is/are included among the qualifications assessed for the selected PhD competition (see Annex 1, p. 17 ff.), and possibly send a reminder to the referee/s already inserted. **The modifications will be permanently saved provided that the candidate bring the full application again to a conclusion.**

After the deadline for applications, modification or addition to the data or to the documents will be no longer possible.

At the end of the procedure, candidates must print the application form and **pay by June 24, 2020 the participation fee of € 35.00. Failure to pay the application fee by the deadline will result in candidates being excluded from the competition.** The participation fee must be paid via the PagoPA system, with one of the following methods:

- **direct payment** (credit cards or bank transfers through the affiliated banks) in the "Payments" section of your Personal Area, by clicking on the invoice number, then on the "Pay by PagoPA" button;
- **deferred payment**, bringing your PagoPA invoice to a bank, a post office, a SISAL or Lottomatica point, or using your home banking system. Candidates can print the invoice in their Reserved Area, by clicking on the invoice number and then on the button "Print notice for PagoPA".

4. **The application form must be printed and hand-delivered to the examining committee on the day of the first on-site test (the written test if scheduled, otherwise the interview). Candidates who will not take any on-site test must send the signed application form, together with a copy of a valid identity document, to [concorso-dottorati@unipv.it](mailto:concorso-dottorati@unipv.it) by the date of the interview.**
5. After the deadline for applications, the University administration will check the validity of the applications received and verify that the application fee of € 35.00 has been paid within the deadline. **In cases of invalid applications, or where the payment has not been made within the deadline, the candidate will be excluded from the competition.** On the [phd.unipv.it/bando-36/](http://phd.unipv.it/bando-36/) website the list of the candidates admitted to the selection procedure will be published for each PhD course.
6. Candidates who wish to take part in more than one competition will have to submit a separate application for each, together with the qualification certificates requested, and pay a participation fee for each PhD competition selected.
7. All applicants are conditionally admitted to the PhD competitions while the University administration office checks that they actually possess the requirements provided in this call for applications, pursuant to D.P.R. n. 445/2000, artt. 43 and 71. The University administration reserves the right, at any time, to exclude candidates from the selection procedure. The University administration will also check the veracity of candidates' self-declarations: candidates found to have made false declarations may face criminal proceedings and administrative sanctions, pursuant to art. 76 of D.P.R. 445/2000.

### **Art. 6 EDiSU benefits**

1. PhD students, pursuant to D.P.C.M. of April 9, 2001, are entitled to enjoy, under the same conditions of the other students, the benefits offered by the University of Pavia's EDiSU (Institution for the Right to Study).
2. Candidates who wish to enjoy these benefits (scholarships, accommodation, reduced meal prices at canteens etc.) should consult the <http://www.edisu.pv.it/> website where the call for applications for the above-mentioned benefits will be advertised. Candidates are allowed to apply for the EDiSU benefits before the PhD competition and before their possible enrolment in the PhD course.

### **Art. 7 Examining Committee**

1. The Committees in charge of the PhD competitions are appointed by the Rector in accordance with the University of Pavia's "Regulations for PhD courses".
2. Upon approval of the Academic Board, one or more members of the Committee can take part in the selection procedure via videoconference.
3. The composition of the examining Committees will be published, after the announcement deadline has passed, on the [phd.unipv.it/bando-36/](http://phd.unipv.it/bando-36/) website.

### **Art. 8 Selection procedure**

1. Admission to the PhD courses is subject to the passing of a selection procedure aimed at assessing candidates' competence, ability and aptitude for research. In Annex 1 the tests dates and locations, selection procedures and notes for each PhD competition are listed.
2. The selection procedure can be of three types:

- a. *Selection procedure by qualifications assessment and tests (written test and interview)*

The selection procedure by qualifications assessment and tests consists of a comparative assessment of the qualifications submitted by candidates, as well as two tests.

The admission tests consist of a written test and an interview, including a verification of candidates' knowledge of a foreign language, selected from those listed for each PhD courses and indicated by the candidate in the application. The examining committee can assign up to 30 points per test for the evaluation of each candidate.

The written test may consist of examinations, exercises and essays on topics related to the PhD course.

Candidates who have passed the written test with a score of 21 points or more are admitted to the interview. The interview is deemed to have been passed if a candidate obtains a score of 21 points or more.

If specified in Annex 1 (p. 17 ff.), candidates can ask to be interviewed via videoconference, by selecting the appropriate option during the online application procedure (see art. 5).

Unless otherwise specified in Annex 1, the examining committee can assign up to 10 points for candidates' qualifications for each PhD course, divided as indicated in Annex 1. The qualifications assessment takes place after the written test and before the correction of the papers. The results of the qualifications assessment will be announced before the interview.

b. *Selection procedure by qualifications assessment and interview*

Unless otherwise specified in Annex 1, the examining committee can assign up to 10 points for candidates' qualifications, divided as specified in Annex 1 for each PhD course. For each PhD course, a minimum threshold may be set for admittance to the interview, as indicated in Annex 1. The results of the qualifications assessment will be announced before the interview, with the instructions and timing indicated in Annex 1.

The interview includes a verification of candidates' knowledge of a foreign language, selected from those listed for each PhD course. The examining committee may assign up to 30 points as an interview points scale. The interview is deemed successful if a candidate obtains a score of 21 points or more.

c. *Selection procedure by qualifications assessment only*

Unless otherwise specified in Annex 1, the examining committee can assign up to 10 points to candidates' qualifications for each PhD course, divided as indicated in Annex 1. Candidates who have obtained at least 7 points out of 10 are admitted to the ranking list.

3. The examining committee will draw up specific reports. Candidates will be ranked in descending order by totalling the scores obtained by each candidate in the scheduled tests and the qualifications assessment.
4. If candidates have an identical score on the ranking list, the positions with scholarship will be awarded on a means basis, pursuant to D.P.C.M. of April 9, 2001 and subsequent modifications and additions; for positions without a scholarship, the youngest candidate will have priority.
5. The President of the Committee will submit to the University Administration the competition reports.
6. **The admission tests schedule, indicated in Annex 1 of this call (p. 17 ff.), is equivalent to a notification to applicants. Possible modifications in the dates and locations of the tests will be announced on the [phd.unipv.it/bando-36/](http://phd.unipv.it/bando-36/) website. Candidates will not receive any further communication from the University administration office. Should the current situation of emergency persist, the Committees, in compliance with ministerial and rectoral resolutions, are entitled to establish new admission procedures for**

**PhD courses, that will be communicated on the [phd.unipv.it/bando-36/](http://phd.unipv.it/bando-36/) website at least 7 days before the date of the first on-site test (see Annex 1 of this call).**

7. On the day of the on-site tests, candidates will be asked to present the valid identity document whose details were entered during the application procedure. On the same day, candidates will also have to sign the printed application form which must then be handed in to the Committee.
8. **Failure to take part in the admission tests will be considered as constituting a withdrawal from the application process.**

#### **Art. 9**

##### **Admission to the PhD courses**

1. The Rector, by Rectoral Decree, acts to verify the validity of the competition records and approves the ranking lists. Candidates who have placed highly on each ranking list are declared winners, provided they meet the admission requirements for access to the PhD competition and enrolment onto a PhD course.
2. Candidates are admitted to the PhD courses in the ranking list order until all positions for the given PhD course are taken. Should a candidate decide not to take up his/her place before the start of the course, their place may be taken by other candidates following the ranking list order. Should a candidate win more than one competition, he/she will have to choose only one PhD course and communicate this choice in writing.
3. Before the beginning of the educational activity of the PhD course, additional students already selected by specific committees in the framework of international programs involving the University of Pavia can be admitted to the course.

#### **Art. 10**

##### **Public Administration employees**

1. Prevailing laws regarding time off work or special leave will apply to any public administration employees admitted onto a PhD course.

#### **Art. 11**

##### **Enrolment**

1. The ranking lists will be published on the University's official noticeboard <http://www-5.unipv.it/alboufficiale/> and on the [https://studentionline.unipv.it/esse3/Home.do?cod\\_lingua=eng](https://studentionline.unipv.it/esse3/Home.do?cod_lingua=eng) website. In order to check their results, candidates have to login by entering the username and password provided at the end of the registration procedure, click on "Admissions" from the top right menu and then on "Admission test". **Candidates will not be informed personally: the publication of the ranking list is equivalent to an official notice to applicants.**
2. Candidates can appeal against the approval of the ranking list to the TAR (Regional Administrative Tribunal) within 60 days from the publication of the results on the

University's official noticeboard, or make a special appeal to the President of the Republic within 120 days; in the absence of an appeal, the provision shall be incontrovertible.

3. **Successful applicants must enrol** in the PhD course by following the instructions provided at [phd.unipv.it/call-36/](https://phd.unipv.it/call-36/).
4. Successful applicants who do not yet hold the second-level degree necessary to enrol onto a PhD will be conditionally admitted. By the deadline of October 31, 2020 they will have to provide the University Administration office with proof of graduation by following the procedure described in Art. 2, para. 1.
5. Candidates in possession of an academic degree obtained in a non-EU country, if successful, will have to provide the University administration, within a deadline agreed with the office, the following documents:
  - a. legalized degree certificates, bearing the list of the exams taken during their academic career and the marks obtained;
  - b. the original "Dichiarazione di Valore in Loco", issued by the competent Italian diplomatic representative in the country where the academic qualification has been attained.

In case of documents in a language different from Italian or English candidates will have to submit, together with the original documents, their sworn and legalized translation into Italian or English. The University administration reserves the right to ask students to provide additional documents if necessary to carry out the appropriate checks on the degree. The Administration office also reserves the right to ask students holding a foreign degree obtained within the EU to provide the "Dichiarazione di Valore in Loco" in cases where its validity is doubted.

6. Upon enrolment, non-EU citizens resident abroad must submit to the Administration office, within a deadline agreed with the office, a photocopy of their residence permit or application for the residence permit.
7. Competition winners will have to pay, through the payment notice provided at the end of the application procedure, the enrollment fee, amounting to € 156.00.
8. Successful candidates with scholarship, **who do not enrol and pay the enrolment fee by the deadline of 5 days from the day following the publication online ([https://studentionline.unipv.it/esse3/Home.do?cod\\_lingua=eng](https://studentionline.unipv.it/esse3/Home.do?cod_lingua=eng)) of the ranking list**, will be considered as having **forsaken** their position.

Successful candidates without scholarship, **who do not enrol and pay the enrolment fee by the deadline of 7 days from the day following the publication online ([https://studentionline.unipv.it/esse3/Home.do?cod\\_lingua=eng](https://studentionline.unipv.it/esse3/Home.do?cod_lingua=eng)) of the ranking list**, will be considered as having **forsaken** their position.

9. The University Administration reserves the right to check the validity of winners' declarations. Any applicants found to have made false statements will lose the benefits deriving from these declarations.

## **Art. 12 Scholarships**

1. Unless otherwise specified in Annex 1, the annual gross amount of a PhD scholarship is € 15,343.28, including the I.N.P.S. contribution that is at the expense of the scholarship holder. PhD scholarships are regulated by the provisions of Law n. 476 of August 13, 1984, art. 4.
2. The Rector, by Rectoral decree, awards the scholarships to the successful candidates following the order of the ranking lists and until all scholarships for the given PhD have been assigned.
3. Scholarships have a duration of one year and are confirmed annually, provided that the student has been admitted to the following year by the Academic Board.
4. The scholarships are paid in monthly deferred instalments.
5. The scholarship amount is increased by 50% for any research periods carried out at foreign institutions, duly authorized in advance by the Academic Board. The research periods abroad must not exceed a maximum of 18 months in total.
6. PhD scholarships cannot be combined with apprenticeship contracts, research grants or other scholarships awarded for any reason whatsoever. The only exceptions are scholarships assigned by national or international bodies to support with internships abroad the research activities.
7. Students who have already benefited from a PhD scholarship, even partially, are not eligible for a second one.
8. Starting from the 2<sup>nd</sup> year, to each PhD student, with or without scholarship, a budget for research activity in Italy and abroad is awarded, amounting to 10% of the scholarship, in accordance with the provisions of the Ministerial Decree n. 45 of February 8, 2013, art. 9.

## **Art. 13 PhD students' obligations**

1. Admission onto a PhD course entails full-time and dedicated commitment. Course activities are mandatory and are organised and structured by the Academic Board of each PhD course. The Academic Board may set specific rules for PhD courses jointly supervised with companies, institutes or public research centres, students of medical specialisation schools or public administration employees attending PhD courses.

## **Art. 14 PhD students' teaching activity**

1. The PhD student, if authorised by the Academic Board, may act as a tutor as well as fill a supplementary teaching role up to a maximum of 40 hours per academic year. PhD students in the medical area can take part in clinical and assistance activities.

### **Art. 15**

#### **Joint attendance with medical specialisation schools**

1. Final-year students of the University of Pavia's medical specialisation school, who have successfully passed the PhD competition, can enrol onto a PhD course provided that the joint attendance has been approved by the specialisation school Committee.
2. The joint attendance must be requested to the University Administration at the same time as the enrolment onto the PhD course, enclosing the following documents:
  - a. written authorization issued by the specialisation school Committee, testifying that the attendance to the PhD course is compatible with the activity and the commitment requested by the specialisation school;
  - b. list of the publications and self-declaration on the research activity carried out during the specialisation school.
3. During the year of joint attendance, the student is not entitled to receive a PhD scholarship.

### **Art. 16**

#### **Incompatibility**

1. Enrolment onto a PhD course is incompatible with a simultaneous enrolment on a degree course, Italian "Master" course, non-medical specialisation school, TFA (Tirocinio Formativo Attivo - Active Educational Training) or other PhD course (except in cases of joint-supervision agreements with a foreign institution) both in Italy and abroad.

### **Art. 17**

#### **Ethical Code**

1. PhD students will have to abide by the provisions of the University of Pavia Code of Ethics, available at the following link: <https://web.unipv.it/wp-content/uploads/2019/03/Code-of-Ethics-English-transaltion.pdf>.

### **Art. 18**

#### **Final exam and attainment of the PhD degree**

1. The title of PhD ("Dottore di ricerca") is attained following a positive assessment of a research thesis which contributes to the progress of knowledge or methodology in the research field chosen by the PhD student. The thesis is publicly discussed in front of a committee appointed by the Rector.

Unless otherwise specified in Annex 1, the PhD degree is awarded by the Rector of the University of Pavia.

2. The attainment of the PhD degree will be certified by the University administration after the upload of the complete version of their PhD theses in the University's electronic archives by the PhD graduate. The University will take care of depositing the theses, according with the

current Italian laws, at the National Libraries of Roma and Firenze where they will be conserved and made available for public consultation.

#### **Art. 19**

##### **Use of personal data**

1. Pursuant to Law n. 196 of June 30, 2003 ("Personal data protection code"), the information supplied by candidates will be gathered by the University of Pavia's Research and Third Mission Unit and used for the management of the admission competitions and of the possible candidates' academic career. Granting consent for the handling of personal data is therefore obligatory and failure to do so will result candidates' exclusion from the competition.
2. The information provided by the candidates will be communicated to the University of Pavia's administrative offices and to the departments directly concerned with the legal and financial positions of the successful candidates.
3. Candidates are entitled to the rights stated in art. 7 of the Law 196 of June 30, 2003, including access to their personal data, its modification, updating, integration, cancellation etc., and likewise reserve the right to oppose any use of the data other than the institutional purposes stated above.

#### **Art. 20**

##### **Head of Administrative Procedures**

1. The Head of Administrative Procedures, under Law no. 241 of 7 August 1990 and subsequent modifications and additions, is Ms Sofia Baggini, Head of the Research and Third Mission Unit. For information please contact the Research and Third Mission Unit – Via Ferrata n. 5 – Pavia (Italy), tel. +39 (0)382 985983/84/37/72, e-mail [concorso-dottorati@unipv.it](mailto:concorso-dottorati@unipv.it).

#### **Art. 21**

##### **Final regulations**

1. In relation to any issues not explicitly specified in this announcement, the provisions of existing Italian legislation on PhD courses and of the University of Pavia's "Regulations for PhD courses" n. 1223 of July 24, 2013 apply.
2. Only the Italian version of this call for applications will be binding in case of controversies.

**Pavia, May 19<sup>th</sup>, 2020**

## **MACRO-AREA OF SCIENCE AND TECHNOLOGY**

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### **PhD COURSE IN BIOENGINEERING, BIOINFORMATICS AND HEALTH TECHNOLOGIES**

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**LOCATION:** DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

**DIRECTOR:** Prof. SILVANA QUAGLINI

**RESEARCH TOPICS:** bioinformatics, biomedical informatics, modeling of biological systems, biomedical technology, computational biomechanics, biological tissue engineering, biomaterials, synthetic biology.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>7</b>	3 scholarships funded by the University of Pavia; 2 scholarships funded by the Department of Electrical, Computer and Biomedical Engineering; 1 scholarship funded by MEDAS S.r.l.; 1 scholarship funded by Fondazione Maugeri.
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for this position must hold a second-level degree attained abroad.

For all types of "additional positions", the Committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to

take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 15 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. motivation letter in Italian or English language (max 500 words) (up to 1 point);
- b. research project either in Italian or in English (max. 1500 words), related to PhD research topics. The project's structure should be as follows: short general introduction about the state of the art relative to the chosen topic; presentation of the research's objectives; discussion of the expected results; evaluation of the theoretical and/or practical implications (up to 5 points);
- c. exams taken during the candidate's degree courses, bearing the mark (up to 6 points);
- d. scientific publications (up to 1 point);
- e. *curriculum vitae* (up to 2 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 8/15.**

The results of the qualifications assessment will be published online no later than **September 9, 2020**. The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 25, 2020, at 9:30 (CET), "Aula Seminari" of the Department of Electrical, Computer and Biomedical Engineering (ex "Aula Dipartimento di Informatica e Sistemistica") - Floor D - Via Ferrata n. 5 – Pavia.**

The research project will be discussed during the interview and is meant to verify the candidate's aptitude towards research. It will not be binding if the candidate is admitted onto the PhD course.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://phdbb.unipv.eu/site/en/home.html>

The PhD course involves the following programs:

- a. Big data and biomedical informatics;
- b. Bioengineering for diagnosis, therapy and rehabilitation;

- c. Cellular and tissue engineering.

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**PhD COURSE  
IN COMPUTATIONAL MATHEMATICS  
AND DECISION SCIENCES**

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**LOCATION:** DEPARTMENT OF MATHEMATICS "F. CASORATI"

**DIRECTOR:** Prof. LUCA FRANCO PAVARINO

**COOPERATING INSTITUTION:** University of Italian Switzerland (USI)

The PhD degree will be jointly conferred by the Rector of the University of Pavia and the Rector of the University of Italian Switzerland.

**PhD students will have to spend a mobility period at the University of Italian Switzerland of at least six months over the three years.**

**RESEARCH TOPICS:**

**Computational Mathematics:** theoretical and computational tools for the applied Sciences and Engineering

**Scientific Computing:** algorithms for continuous and discrete mathematical models, parallel and distributed computing, numerical simulation

**Numerical Analysis:** numerical methods for ordinary and partial differential equations, approximation of data and functions, numerical linear algebra

**Mathematical Analysis and Modeling:** ordinary and partial differential equations, functional analysis, variational models and methods, calculus of variations

**Biomathematics:** mathematical and numerical modeling in Biology, Physiology and Neurosciences

**Mathematical Physics:** kinetic theory, granular media, statistical mechanics, diffusion equations, hyperbolic systems, socio-economic modeling

**Computational Physics:** mathematical and computer methods in Elementary Particle and High Energy Physics, Monte Carlo methods, quantum computing

**Biophysics:** biophysical models and Monte Carlo methods in Radiotherapy and Hadrotherapy

**Computational Statistics:** multivariate Statistics, data analysis, Bayesian Statistics, analytical models for Big Data and Data Sciences

**Decision Sciences:** decision models, decision under uncertainty, risk theory, game theory

**Optimization and Operational Research:** Optimization methods and algorithms, convex, integer, quadratic, and nonlinear programming, Control Theory

**Machine and Statistical Learning:** Deep Learning, Big Data Analytics, Bio Data Science

A more detailed description of the research carried out at the Departments of the two Institutions involved (University of Pavia and University of Italian Switzerland) is available at <http://compmat.unipv.it> as well as at <http://matematica.unipv.it/en>.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	<p>1 scholarship funded by USI;</p> <p>2 scholarships funded by the Department of Mathematics "F. Casorati";</p> <p>1 scholarship funded by the Fondazione Istituto Neurologico Casimiro Mondino, to undertake research in "Machine learning and data fusion for neuroimaging analysis and neurodegenerative disorders";</p> <p>1 scholarship funded by the Department of Mathematics "Felice Casorati" (cofunded by IMATI-CNR) to undertake research in "Solution of partial differential equations on complex geometries with the support of machine learning techniques"</p>
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	<p>Candidates applying for this position must hold a second-level degree attained abroad. The Committee will draw up specific reports and a separate ranking list.</p>

**ADMISSION PROCEDURE: qualifications assessment and interview via videoconference.** Candidates are allowed to take the interview in English.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 15 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. letter of intent written in English (max 2000 words) including the research project to be carried out during the PhD course. This will not be binding if the candidate is admitted to the PhD program (up to **3** points);
- b. exams taken during the candidate's degree courses, bearing the marks (up to **5** points);
- c. a maximum of 1 reference letter, issued and submitted directly by a professor from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referee who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other documents, the letter must not be uploaded by the candidate during the online application procedure (up to **2** points);
- d. abstract of the Master thesis, if available (max 1000 words), publications and preprints. Concerning publications and preprints, candidates may also send an

abstract and indicate a DOI (Digital Object Identifier), or otherwise provide a link to a web repository. Only publications from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to 2 points);

e. *curriculum vitae* (up to 3 points).

Except for the reference letter, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 10/15.**

The results of the qualification assessment will be published online no later than **July 10, 2020**. The results will be posted on the noticeboard of the Department of Mathematics “F. Casorati” of the University of Pavia and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: July 16, 2020 at 9:00 (CET), via videoconference.**

The interview will be held in Italian or English and will verify the candidate’s knowledge of English. The interview will concern the main topics covered by the PhD course and will include a short presentation of the research project meant to verify the candidates’ aptitude towards research.

Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate’s failure to take the interview due to technical difficulties.

**INFORMATION:** <http://compmat.unipv.it>

**AMOUNT OF THE SCHOLARSHIPS**

Each scholarship has a gross annual amount of € 16.238,47.

**DETERMINATION OF THE UNIVERSITY AFFILIATION**

PhD students will be affiliated to the University (UNIPV or USI) providing their scholarship. Once the ranking list has been determined, selected candidates will be asked to express their preference regarding the university affiliation. The Academic Board of the PhD course will then assign the scholarships based on the candidates’ preference, until the scholarships of one of the two Universities have all been attributed. The remaining scholarship grantees will be assigned the scholarships of the other University, irrespective of their indicated preference. The winner of the position without scholarship will be affiliated to the University of his/her choice.

**PLEASE NOTE:** Candidates who are interested in applying for the scholarship funded by the Fondazione Istituto Neurologico Casimiro Mondino, to undertake research in “Machine learning and data fusion for neuroimaging analysis and neurodegenerative disorders”, or in the scholarship funded by the Department of Mathematics “Felice Casorati” (cofunded by IMATI-CNR), to undertake research in “Solution of partial differential equations on complex geometries with the support of machine learning techniques”, must state their interest to the examining committee before the interview; these candidates’ interviews will therefore also include a discussion of the project topics. The examining committee will draw up specific ranking lists.

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**PhD COURSE**  
**IN DESIGN, MODELING, AND SIMULATION IN ENGINEERING**

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**LOCATION:** DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE

**DIRECTOR:** Prof. ALESSANDRO REALI

**RESEARCH TOPICS:** Civil Engineering, Hydraulic Engineering, Building Engineering and Architecture, Computational Mechanics, Industrial Engineering, Applied Mathematics, Materials Engineering.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	4 scholarships funded by the University of Pavia; 1 scholarship funded by ASMia S.r.l. to undertake research in "Circular Economy in water treatment".
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for this position must hold a second-level degree attained abroad.

For all types of "additional positions", the Committee will draw up specific reports and separate ranking lists.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. exams taken during the candidate's degree courses, bearing the marks (up to **5** points);
- b. abstract of the master thesis, scientific publications, preprints (up to **2** points);
- c. *curriculum vitae* (up to **3** points).

**The minimum score to be admitted to the interview is 7/10.**

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

The results of the qualifications assessment will be published online no later than **September 14, 2020**. The results will be posted on the Department of Civil Engineering and Architecture noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 21, 2020, at 10:00 (CET)**, Aula MS1 of the Department of Civil Engineering and Architecture – Via Ferrata n. 3, Pavia.

The interview will concern the main topics covered by the PhD course.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://phd.unipv.it/phd-program-in-design-modeling-and-simulation-in-engineering/>

The PhD course involves the following programs:

- a. Civil Engineering and Architecture – tracks: i) Structures and Materials; ii) Hydraulic, Environment & Energy Engineering; iii) Building Engineering/Architecture
- b. Computational Mechanics.

**PLEASE NOTE:** Candidates who intend to apply for the scholarship funded by ASMia S.r.l. to undertake research in “Circular Economy in water treatment” must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up specific ranking lists.

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**PhD COURSE  
IN PHYSICS**

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**LOCATION:** DEPARTMENT OF PHYSICS

**DIRECTOR:** Prof. LUCIO ANDREANI

**RESEARCH TOPICS:** Nuclear and subnuclear physics, theoretical and mathematical physics, condensed matter physics (including experimental and theoretical solid-state physics, optics and photonics, quantum information), interdisciplinary and applied physics (biomedical physics, energy, ICT-Information and communication technology)

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>7</b>	6 scholarships funded by the University of Pavia; 1 scholarship funded by the National Institute of Nuclear Physics
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for this position must hold a second-level degree attained abroad. The Committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

The candidates' qualifications must, in the judgement of the examining committee, meet the standards of a solid application story. Subsequently, the preparation of the applicants is evaluated in an interview, whose purpose is to demonstrate a comprehensive knowledge of basic Physics and to assess the student's analytic ability, creativity, and potential for successful completion of the PhD course in Physics.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. exams taken during the candidate's degree courses, bearing the marks (up to **4** points);
- b. Master's degree thesis, possible publications and professional experience. A 2-page abstract of the thesis must be attached to the application. Publications and similar documents must be attached to the application in their complete version (up to **2** points);
- c. outline of the research project (max 2 pages), in Italian or English. This will not be binding if the candidate is admitted onto the PhD course (up to **2** points);
- d. a maximum of 2 reference letters, issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to upload the reference letter in the University portal by June 24, 2020 at 17:00 pm (CET). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **2** points).

Except for the reference letters, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 4/10.**

The results of the qualifications assessment will be published online no later than **July 31, 2020**. The results will be posted on the Physics Department noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 10, 2020, at 9:00 (CET),** Physics Department, Via Bassi n. 6, Pavia.

The interview will concern the main topics covered by the PhD course and the research project.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** [http://www-2.unipv.it/dottorati/scienzeetecnologie/fisica/n/web\\_PhD/](http://www-2.unipv.it/dottorati/scienzeetecnologie/fisica/n/web_PhD/)

The PhD course involves the following programs:

1. Physics of Fundamental Interactions (Nuclear and Subnuclear Physics, Theoretical and Mathematical Physics);
2. Condensed Matter, Optical Physics, Quantum Information;
3. Interdisciplinary and Applied Physics.

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**PhD COURSE  
IN ELECTRONICS, COMPUTER SCIENCE  
AND ELECTRICAL ENGINEERING**

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**LOCATION:** DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

**DIRECTOR:** Prof. PAOLO DI BARBA

**RESEARCH TOPICS:** Photonics and Space Communications Systems, Computer Engineering and Automation, Electrical Engineering.

The PhD course includes three programs, among which an international program in cooperation with the Lodz University of Technology, Poland.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>8</b>	<p>6 scholarships funded by the University of Pavia;</p> <p>1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani) to undertake research in "Studying and development of methodologies for the design and the kinematic-kinetostatic optimisation of mechanical systems in industrial applications");</p> <p>1 scholarship funded by RSE S.p.A., to undertake research in</p>
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		"Behaviour of electrical market operators".
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>3</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>2</b>	Candidates applying for this position must hold a second-level degree attained abroad.
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.
<b>ADDITIONAL POSITIONS JOINTLY SUPERVISED WITH COMPANIES - ING-DiBa AG</b>	<b>1</b>	Such position is reserved to candidates already employed by ING-DiBa AG (Frankfurt am Main, Theodor-Heuss-Allee n. 2)
<b>ADDITIONAL POSITIONS JOINTLY SUPERVISED WITH COMPANIES - FDUEG S.r.l.</b>	<b>1</b>	Such position is reserved to candidates already employed by FDUEG S.r.l. (Ghislarengo - VC, via Garibaldi n. 24)

For each type of "additional position", the Committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE:** qualifications assessment and interview. Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. degree marks of both the bachelor and master's degree. If the master's degree hasn't been attained yet, the marks obtained during the master's degree course will be considered, provided that at least half of the total credits required for the master's course have been achieved by the date of the application submission (up to 6 points);
- b. publications (up to 1 point);
- c. *curriculum vitae* (up to 1 point);

- d. 2 reference letters, issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. The Committee will assess the relevance of what is declared in the letter and the scientific reputation of the person signing the letter. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to 2 points).

Except for the reference letters, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 6/10.**

The results of the qualifications assessment will be published online no later than **July 28, 2020**. The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 9, 2020, at 9:30 (CET)**, at the Engineering Faculty - Via Ferrata n. 5 – Pavia. Candidates are advised to refer to the Dean's secretary to find out the classroom where the exam will take place.

Candidates who in the application procedure requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** [http://www-3.unipv.it/dottIEIE/index\\_en.php?pag=English/welcome.html](http://www-3.unipv.it/dottIEIE/index_en.php?pag=English/welcome.html)

The PhD course involves the following programs:

- a. Photonics and Space Communications Systems;
- b. Computer Engineering and Automation – including the curriculum in Financial Technologies (FinTech);
- c. Electrical Engineering (in cooperation with the Lodz University of Technology, Poland).

**PLEASE NOTE:** Candidates who are interested in applying for one of the following scholarships:

- 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani) to undertake research in “Studying and development of methodologies for the design and the kinematic-kinetostatic optimisation of mechanical systems in industrial applications”;
- 1 scholarship funded by RSE S.p.A., to undertake research in “Behaviour of electrical market operators”

must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up specific ranking lists.

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**PHD COURSE  
IN MICROELECTRONICS**

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**LOCATION:** DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

**DIRECTOR:** Prof. PIERO MALCOVATI

**RESEARCH TOPICS:** Design and study of integrated circuits.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>4</b>	3 scholarships funded by the University of Pavia; 1 scholarships funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani).
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for such position must hold a second-level degree attained abroad. The Committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 20 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. exams taken during the candidate's degree courses, together with the achieved marks (up to **12** points);
- b. publications (up to **4** points);
- c. other qualifications considered as relevant (up to **2** points);
- d. a maximum of 2 reference letters, issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **2** points).

The qualifications, as well as a full *curriculum vitae et studiorum*, must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

The results of the qualifications assessment will be published online no later than **September 17, 2020**. The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 25, 2020, at 10:00 (CET)**, at the Engineering Faculty - Via Ferrata n. 5 – Pavia. Candidates are advised to refer to the Dean's secretary to find out the classroom where the exam will take place.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://www.unipv.it/dottMICR>

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**PhD COURSE  
IN CHEMICAL AND PHARMACEUTICAL SCIENCES,  
AND RELATED INDUSTRIAL INNOVATION**

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**LOCATION:** DEPARTMENT OF CHEMISTRY

**DIRECTOR:** Prof. PIERSANDRO PALLAVICINI

**RESEARCH TOPICS:**

Chemistry: Green Chemistry; Asymmetric syntheses, Computational methods in bio-inorganic systems; Ligands for nucleic acids; Polymers for energetics; Supramolecular devices; Functional nanomaterials; Surfaces with molecular monolayers; Adsorbants and solid catalysts for analytical applications; Biomimetic chemosensors; Materials for stone/wood supports; Structure/properties of metallo-enzymes.

Pharmaceutical sciences: Identification of novel neuroprotection and anticancer drugs; drug discovery from plants; macromolecule immobilization; anti-inflammatory nutraceuticals; interaction of molecularly imprinted polymers with biological targets; LC-MS for protein characterization; Novel site-specific drug delivery systems, scaffolds and hemoderivatives for tissue repair; stem cell encapsulation; semen encapsulation for zootechnical application: models of human cartilage

Industrial innovation: Scale-up of products and processes in chemical and pharmaceutical fields, development of formulation strategies in pharmaceutical industry.

<p><b>POSITIONS WITH SCHOLARSHIP</b></p>	<p>17</p>	<p>5 scholarships funded by the University of Pavia;</p> <p>1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Soft 3D Printable Actuators";</p> <p>1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Innovative Viscosity Modifiers for Energy Efficient Lubricants";</p> <p>1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Development of 2D and 3D Hybrid Perovskite Solar Cells";</p> <p>1 scholarship funded by the Department of Chemistry to undertake research in "Integrative Approaches to Target Hsp90 Complexes in Cancer";</p> <p>1 scholarship funded by the Department of Chemistry to undertake research in "Gaining health and energy from Lombard agrifood waste";</p> <p>1 scholarship funded by the Department of Chemistry (FARE funds) to undertake research in "Dearomatization of Heteroarenes";</p> <p>1 scholarship funded by the Department of Chemistry (FARE funds) to undertake research in "Dearomative Molecular Editing";</p> <p>1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Simplicity to Complexity: New Diversification Methods";</p> <p>1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Synthesis of Type-II Polyketides From Arenes";</p> <p>1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Synthesis of Aminoglycosides From Arenes";</p> <p>1 scholarship funded by the Department of Chemistry (PRIN funds) to undertake research in "Electrochemical upgrading of organic feedstock";</p> <p>1 scholarship funded by FLAMMA S.p.A. to undertake research in "Synthesis and development of processes for advanced intermediates and active pharmaceutical ingredients".</p>
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<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>3</b>	
<b>POSITIONS WITH SCHOLARSHIP FUNDED BY INPS (Italian "National Institute of Social Security")</b>	<b>1</b>	Such position is reserved to children and orphans of workers registered in the "Gestione unitaria delle prestazioni creditizie e sociali" or of retired citizens registered in the "Gestione dipendenti pubblici" for the academic year 2020-2021, to undertake research in "Environmentally Compatible Silyl-Modified Polymers (ECOSiMP)".  Candidates who meet the requirements above must state their interest for this position to the examining Committee before the interview.
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Such positions are reserved to candidates holding a second-level degree attained abroad. The Committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 15 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **10** points). In case of degree attained in a foreign institution, the committee will use the ECTS grading tables;
- b. *curriculum vitae et studiorum* (up to **3** points)
- c. motivation letter, either in Italian or English (max 1000 characters, spaces included), along with / including a research project developed by the candidate (max 3000 characters, spaces included; max 2 figures), either in Italian or English (up to **2** points). The project, which will not be binding if the candidate is admitted onto the PhD course, must contain a general introduction about the state of the art on the topic, a presentation of the research objectives, a discussion of the expected results as well as an evaluation of the theoretical and/or practical implications.

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 10/15.**

The results of the qualifications assessment will be published online no later than September 15, 2020. The results will be posted on the Chemistry Department noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 21, 2020, at 10:00 (CET)**, at the Department of Chemistry – Aula CG3 (General Section) – Viale Taramelli n. 12 – Pavia.

The interview will concern the topics covered by the PhD course and may include a discussion on the candidates' experimental thesis and/or on the post-graduate experimental activities, in order to assess their aptitude and potential.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** please contact the PhD Director at [piersandro.pallavicini@unipv.it](mailto:piersandro.pallavicini@unipv.it)

The PhD course involves the following programs:

- a) Chemistry;
- b) Pharmaceutical Sciences;
- c) Industrial Innovation.

**PLEASE NOTE:** Candidates who are interested in applying for one of the following scholarships:

- 1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Soft 3D Printable Actuators";
- 1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Innovative Viscosity Modifiers for Energy Efficient Lubricants";
- 1 scholarship funded by the Department of Chemistry (ENI s.p.a funds) to undertake research in "Development of 2D and 3D Hybrid Perovskite Solar Cells";
- 1 scholarship funded by the Department of Chemistry to undertake research in "Integrative Approaches to Target Hsp90 Complexes in Cancer";
- 1 scholarship funded by the Department of Chemistry to undertake research in "Gaining health and energy from Lombard agrifood waste";
- 1 scholarship funded by the Department of Chemistry (FARE funds) to undertake research in "Dearomatization of Heteroarenes";
- 1 scholarship funded by the Department of Chemistry (FARE funds) to undertake research in "Dearomative Molecular Editing";
- 1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Simplicity to Complexity: New Diversification Methods";
- 1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Synthesis of Type-II Polyketides From Arenes";
- 1 scholarship funded by the Department of Chemistry (ERC funds) to undertake research in "Synthesis of Aminoglycosides From Arenes";
- 1 scholarship funded by the Department of Chemistry (PRIN funds) to undertake research in "Electrochemical upgrading of organic feedstock";

- 1 scholarship funded by FLAMMA S.p.A. to undertake research in "Synthesis and development of processes for advanced intermediates and active pharmaceutical ingredients"

must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up a specific ranking list.

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## PhD COURSE IN EARTH AND ENVIRONMENTAL SCIENCES

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**LOCATION:** DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES

**DIRECTOR:** Prof. ROBERTO SACCHI

**RESEARCH TOPICS:**

- Quartz-in-zircon elastic thermobarometry
- Assessment of sediment sources and delivery hazard at catchment scale
- A-DInSAR technique as supporting tool for sustainable groundwater resources management
- Demography and ecological response of roe deer across a natural - human-modified habitat gradient
- Integrating ex situ seed conservation and plant translocations in the context of climate change
- The lithological control on the earthquake nucleation at different geological conditions
- The geodynamic evolution of the Gondwana-Laurasia boundary in Triassic times
- Environmental conditions and microbial communities of *Apis mellifera*
- Assessing behavioural traits and ecological impacts of invasive crayfish species in freshwater ecosystems
- Role of vineyard inter-row management on soil hydrological, biological properties and on slope stability
- Improving the sewage sludge quality through mycoremediation
- Digital soil mapping approaches in an intensively used agricultural Landscape in Lombardy characterized by irrigation
- Modelling of Soil Hydrological Dynamics along the Ticino Valley Irrigation Cascade in Lombardy
- Seed biology and establishment ecology of selected wild rice species and cultivated traditional rice varieties towards conservation and management
- Glacial and Periglacial Risks in high mountain environment

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>9</b>	4 scholarships funded by the University of Pavia; 1 scholarships funded by the Department of Earth and Environmental Sciences, to undertake research
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		<p>respectively in:</p> <ul style="list-style-type: none"> <li>- "Assessing behavioural traits and ecological impacts of invasive crayfish species in freshwater ecosystems" *;</li> <li>- "Role of vineyard inter-row management on soil hydrological, biological properties and on slope stability";</li> <li>- "Improving the sewage sludge quality through mycoremediation";</li> <li>- "Digital soil mapping approaches in an intensively used agricultural Landscape in Lombardy characterized by irrigation";</li> <li>- "Modelling of Soil Hydrological Dynamics along the Ticino Valley Irrigation Cascade in Lombardy".</li> </ul> <p>* The scholarship funded by the Department of Earth and Environmental Sciences, to undertake research in "Assessing behavioural traits and ecological impacts of invasive crayfish species in freshwater ecosystems", will have a gross increase of € 4.086,00 per year.</p>
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	1	
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY, to undertake research in "Seed biology and establishment ecology of selected wild rice species and cultivated traditional rice varieties towards conservation and management"</b>	1	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.
<b>ADDITIONAL POSITIONS JOINTLY SUPERVISED WITH COMPANIES - Fondazione Montagna Sicura</b>	1	Such positions are reserved to candidates already employed by Fondazione Montagna Sicura (Località Villard de la Palud 1, Courmayeur, Italy).
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	1	Such positions are reserved to candidates holding a second-level degree attained abroad.

For all types of "additional positions", the Committee will draw up specific reports and separate ranking lists.

**ADMISSION PROCEDURE: qualifications assessment and interview via videoconference.** Candidates are allowed to take the interview in English.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to 5 points);
- b. research project and qualifications (up to 5 points). The research project (max 5000 characters, spaces included), in Italian or English, must concern one of the research topics included in the PhD course. The project is meant to verify the candidate's aptitude towards research. It will not be binding if the candidate is admitted onto the PhD course. The qualifications include: research and development activity for public and private institutions; scientific publications; postgraduate scientific education (internships, training courses, participation to conferences).

The qualifications must be submitted according with the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 5/10.**

The results of the qualifications assessment will be announced no later than **July 17, 2020**. The results will be posted on the Department of Earth and Environmental Sciences noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided during registration.

**INTERVIEW: July 22, 2020, at 9:30 (CET), via videoconference.**

The interview will be held in Italian or English and will be an opportunity to verify the candidate's knowledge of English. The interview will consist in a short presentation of the research project (max 15 minutes; the use of technologic support such as slides is encouraged) that is designed to verify the candidate's aptitude towards research. The research project presented by the candidate will not, in any way, be binding if the candidate is admitted onto the PhD course. More details on programs and research topics are available at the following website: <http://phd-dsta.unipv.it/>.

Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**PLEASE NOTE:** Candidates who intend to apply for one of the 5 scholarships funded by the Department of Earth and Environmental Sciences, to undertake research respectively in:

- "Assessing behavioural traits and ecological impacts of invasive crayfish species in freshwater ecosystems";
- "Role of vineyard inter-row management on soil hydrological, biological properties and on slope stability";
- "Improving the sewage sludge quality through mycoremediation";



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- “Digital soil mapping approaches in an intensively used agricultural Landscape in Lombardy characterized by irrigation”;
- “Modelling of Soil Hydrological Dynamics along the Ticino Valley Irrigation Cascade in Lombardy”

must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up specific ranking lists.

## **MACRO-AREA OF LIFE SCIENCE**

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### **PhD COURSE IN GENETICS, MOLECULAR AND CELLULAR BIOLOGY**

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**LOCATION:** DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"

**DIRECTOR:** Prof. DAVIDE SASSERA

**OPEN POSITIONS:** see tables below ("regular positions" and "additional positions")

**RESEARCH TOPICS:**

- Functional and population genomics of humans and animal species, archaeogenomics and epigenomics.
- Molecular and cellular bases of hereditary and complex disorders, aging, cell and organ differentiation and development, evolutionary mechanisms.
- DNA replication and repair, transcription, regulation of gene expression.
- Microorganisms and viruses of clinical and biotechnological relevance. Interactions between prokaryotes and eukaryotes.
- Biotechnological and molecular approaches for the improvement of crop species.
- Functional and structural characterization of potential targets for pharmacological drugs, development of therapeutic molecules and study of mechanisms of action.

For further information please visit:

- <http://phdsgb.unipv.eu/site/en/home.html> (PhD program)
- <http://phdsgb.unipv.eu/site/en/home/research-topics.html> (research topics)
- <http://phdsgb.unipv.eu/site/en/home/admission-procedures.html> (admission procedures)

### **REGULAR POSITIONS**

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>9</b>	9 scholarships funded by the University of Pavia.
<b>POSITIONS WITHOUT SCHOLARSHIPS</b>	<b>3</b>	
<b>POSITION WITH SCHOLARSHIP FUNDED BY INPS (Italian "National Institute of Social Security")</b>	<b>1</b>	Such position is reserved to children and orphans of workers registered in the "Gestione unitaria delle prestazioni creditizie e sociali" or of retired citizens registered in the "Gestione dipendenti pubblici" for the academic year 2020-2021, to undertake research in "Valorization of agro-industrial waste".

		Candidates who meet the requirements above must state their interest for this position to the examining Committee before the interview.
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**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).**

Candidates are allowed to take the tests in English.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. reference letters (up to two) in Italian or English, issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to submit the reference letters directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other qualifications, the reference letter must not be uploaded in the website during the online application procedure (up to **1** point);
- b. scientific publications. Only publications from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to **1** point);
- c. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **8** points).

Except for the reference letters, the qualifications must be submitted according to the procedure described in art. 5, para. 3 of this call for applications.

**WRITTEN TEST: September 7, 2020, at 9:30 (CET),** Aula "Arturo Falaschi" of the CNR Institute of Molecular Genetics "Luigi Luca Cavalli Sforza" - Via Ferrata n. 1 – Pavia;

**INTERVIEW: September 9, 2020, at 9:30 (CET),** Aula "Arturo Falaschi" of the CNR Institute of Molecular Genetics "Luigi Luca Cavalli Sforza" - Via Ferrata n. 1 – Pavia.

**ADDITIONAL POSITIONS**

<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES GRADUATED ABROAD</b>	<b>3</b>	Such positions are reserved to candidates holding a second-level degree attained abroad.
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

**ADMISSION PROCEDURE: qualifications assessment and interview. The date of the interview will be communicated to the candidates by the Committee via e-mail no later than July 24, 2020.**

Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications). For both categories of additional positions, the Committee will draw up specific reports and separate ranking lists.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. Reference letters (up to two) in Italian or English, issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other qualifications, reference letters must not be uploaded in the website during the online application procedure (up to **2** points);
- b. research activity and scientific publications. Only publications from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to **4** points);
- c. academic achievements during university career, including detailed transcripts of the exams evaluations (up to **4** points).

**The minimum score to be admitted to the interview is 7/10.**

Except for the reference letters, the qualifications must be submitted according to the procedure described in art. 5, para. 3 of this call for applications.

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**PhD COURSE  
IN EXPERIMENTAL MEDICINE**

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**LOCATION:** DEPARTMENT OF INTERNAL MEDICINE AND MEDICAL THERAPEUTICS

**DIRECTOR:** Prof. CARLOMAURIZIO MONTECUCCO

**RESEARCH TOPICS:** general medicine, medical therapy, experimental surgery, microsurgery, anesthesiology, biomedical technologies, bioethics-noetics in surgical patients.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>4</b>	4 scholarships funded by the University of Pavia.
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).** Candidates are allowed to take the tests in English. Candidates applying for the "Additional positions reserved to candidates with a scholarship from a foreign country" will be selected through qualifications assessment and interview in person or via videoconference; the Committee will draw up specific reports and a separate ranking list.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. *curriculum vitae* (up to 4 points);
- b. former periods of proven research activity at Italian or foreign scientific institutions (up to 3 points);
- c. published full papers in peer reviewed medical journals (up to 3 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**WRITTEN TEST: September 15, 2020, at 9:30 (CET),** Aula 2 (floor 1A) – DEA – Fondazione I.R.C.C.S. Policlinico San Matteo – Pavia.

In the written test candidates will have to address one of the topics proposed by the examining committee.

**INTERVIEW: September 17, 2020, at 9:30 (CET),** Aula 2 (floor 1A) – DEA – Fondazione I.R.C.C.S. Policlinico San Matteo – Pavia.

**INFORMATION:** <http://phdms.unipv.eu/site/en/home.html>

The PhD course involves the following programs:

- a) Internal medicine and medical therapeutics;
- b) Experimental surgery and microsurgery.

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**PhD COURSE**  
**IN PSYCHOLOGY, NEUROSCIENCE AND DATA SCIENCE**

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**LOCATION:** DEPARTMENT OF BRAIN AND BEHAVIORAL SCIENCES

**DIRECTOR:** Prof. GABRIELLA BOTTINI

**RESEARCH TOPICS:** Psychology, Neuroscience, Biostatistics, Public Health

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	5 scholarships funded by the University of Pavia.
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Such positions are reserved to candidates holding a second-level degree attained abroad.
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.
<b>ADDITIONAL POSITION JOINTLY SUPERVISED WITH COMPANIES – TICE Cooperativa Sociale</b>	<b>1</b>	Such positions are reserved to candidates already employed by TICE Cooperativa Sociale (Località Seguzzone n. 3 - Alta Val Tidone - PC).
<b>ADDITIONAL POSITION JOINTLY SUPERVISED WITH COMPANIES – ASST Grande Ospedale Metropolitano Niguarda</b>	<b>1</b>	Such positions are reserved to candidates already employed by ASST Grande Ospedale Metropolitano Niguarda (Milano, Piazza dell'Ospedale Maggiore n. 3).

For all types of "additional positions", the Committee will draw up specific reports and separate ranking lists.

**ADMISSION PROCEDURE: qualifications assessment and interview.** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. motivation letter in Italian or English (max 500 words) mentioning the name of two referees the Committee may contact for a presentation of the candidate (up to **2** points);
- b. research project in Italian or English (max. 3000 words), related to PhD research topics. The project's structure should be as follows: general introduction about the state of the art relative to the chosen topic; presentation of the research objectives; description of the methods (procedure, data analysis); discussion of the expected results; evaluation of the theoretical and/or practical implications (up to **5** points);
- c. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **3** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications. The candidates will make sure to include their *curriculum vitae*.

**The minimum score to be admitted to the interview is 7/10.**

The results of the qualifications assessment will be published online no later than **September 15, 2020**. The results will be posted on the Department of Brain and Behavioral Sciences (Psychology section) noticeboard (P.zza Botta n. 11, Pavia) and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 24, 2020, starting from 9:00 (CET),** Sala Riunioni, Department of Brain and Behavioral Sciences (Psychology section), Piazza Botta n. 11, Pavia.

If the interview is held in Italian, the Committee will verify the candidate's knowledge of the English language through the reading and translation of a short text taken from an essay or scientific article. The candidate will be asked to describe the content and methodology of the research project submitted, as well as the reason why he/she is willing to undertake a doctoral course. The interview will take into consideration the candidate's disciplinary orientation, in particular for what concerns the research methodology in the field of behavioural, biomedical and instrumental sciences. Candidates who are interested in the "Data Science in Biomedicine" program will be interviewed also on general topics of epidemiology and biostatistics.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://phd-npds.unipv.eu/>

The PhD course involves the following programs:

- a. Psychology and Neuroscience;
- b. Data Science in Biomedicine.

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## PhD COURSE IN BIOMEDICAL SCIENCES

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**LOCATION:** DEPARTMENT OF BRAIN AND BEHAVIORAL SCIENCES

**DIRECTOR:** Prof. EGIDIO UGO D'ANGELO

**RESEARCH TOPICS:**

BIOCHEMISTRY TRACK:

Biochemical and immunologic characterization of bacterial proteins, their role in infective process and possible vaccinal use; molecular bases of diseases associated to aging and amyloidosis

Analysis of connective matrix in normal and pathological conditions; proteins of biomedical interest: functional and structural studies; biochemical mechanisms of platelet function

Biochemistry of human erythrocyte; biochemical mechanisms of platelet production; pathogenetic mechanisms of diseases related to protein-misfolding: disease biochemical markers.

PHARMACOLOGY TRACK:

Receptor pathology, metabolism and cellular kinetic study; environmental toxicology; gastrointestinal pharmacology; clinical pharmacology of active drugs on the central nervous system

Antineoplastic drugs pharmacology; transplant pharmacology; pharmacoepidemiology and pharmacoconomics of active drugs on the central nervous system, the cardiovascular system and gastrointestinal system

Pharmacology and molecular mechanisms associated to neurodegenerative diseases

Environmental effects on the immune system; pharmacology of the signaling transduction systems in the neurologic, oncologic and immune system diseases.

PHYSIOLOGY TRACK:

Molecular and cellular physiology of the nervous system; cellular communication and plasticity in the cerebral circuits; physiology and biophysics of sensory, motor and cognitive functions; mathematical model of cells, circuits and brain; cellular communication in the cardiovascular system; physiology of the skeletal and cardiac muscles; physiology of the gastrointestinal system.

NEUROSCIENCE TRACK:

Neurobiology, neuroendocrinology and functional neurology; neurophysiopathology; neuroepidemiology and research methodology; general neurology; child neuropsychiatry; physiopathology, diagnosis and therapy of primary cephalalgia and adaptive disorders; neurodegenerative diseases, brain aging and dementia; advanced analysis of physiology and pathophysiology of the nervous system by high-field functional magnetic resonance imaging.

MEDICINE TRACK:

Disciplines within the medical sciences (cardiology, hematology, pediatrics, neurology/psychiatry); translational issues with focused approach to the study of the molecular and cellular basis of disease.

The PhD course in Biomedical Sciences is dedicated both to candidates graduated in scientific disciplines (for example biology, physics and engineering) with an interest in basic and applied research to disease, and to candidates graduated in Medicine who choose the postgraduate doctoral training with the intent to acquire skills in the context of translational research. The mandatory training activity is intended to improve knowledge and skills required for understanding functional and pathological mechanisms using a multi-scale approach (molecular, cellular, systemic) and includes courses in mathematics, biophysics, computer science, physiology, biochemistry, pharmacology, pathology and therapy.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>8</b>	8 scholarships funded by the University of Pavia
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for such position must hold a second-level degree attained abroad.
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>2</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

For all types of "additional positions", the Committee will draw up specific reports and separate ranking lists.

**ADMISSION PROCEDURE: qualifications assessment and interview:** Candidates are allowed to take the interview in English and/or via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to 4 points);

- b. *curriculum vitae et studiorum* (up to 2 points);
- c. scientific publications (up to 2 points);
- d. research project in Italian or English (max 3000 words), related to the PhD research themes. The project will have to be structured according with the specimen available at the following link: <http://drsbm.unipv.it/admission> (up to 2 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 6/10.**

The results of the qualifications assessment will be published online no later than **September 10, 2020**. The results will be posted on the noticeboard of the Department of Brain and Behavioral Sciences and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 22, 2020 at 9:00 (CET)** - Department of Brain and Behavioral Sciences – Room of the ex Institute of General Physiology – Via Forlanini n. 6 – Pavia.

The interview will concern the main topics covered by the PhD course and in particular the research project submitted by the candidate. The research project will not be binding if the candidate is admitted onto the PhD course.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://drsbm.unipv.it/admission>

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**PhD COURSE  
IN TRANSLATIONAL MEDICINE**

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**LOCATION:** DEPARTMENT OF MOLECULAR MEDICINE

**DIRECTOR:** Prof. ENZA MARIA VALENTE

**RESEARCH TOPICS: "Basic research":** 1. Regulation of gene expression; 2. Structure/Function in proteins; 3. Protein homeostasis, folding and aggregation; 4. Membrane transport; 5. Mitochondrial function and dysfunction; 6. Intercellular communication; 7. Cell death; 8. Stem cells; 9. The cell biology of cancer; 10. The biology of ageing; 11. Mechanisms of immunity; 12. Whole body homeostasis. 13. Intracellular clearance mechanisms. **"Clinical research":** 1. Mendelian diseases; 2. Epigenetics; 3. Cancer genetics; 4. Signalling in development and cancer; 5. Nanomedicine; 6. Next generation sequencing; 7. Host-virus relationship and antiviral therapy; 8. Immune response to pathogens; 9. Brain ageing and neurodegeneration; 10. Neurohormonal

regulation of the circulation; 11. Atherosclerosis and thrombosis; 12. Gastrointestinal inflammation and cancer. 13. Protein misfolding diseases"

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>7</b>	6 scholarships funded by the University of Pavia; 1 scholarship funded by the Department of Molecular Medicine, to undertake research in "Structural studies on mechanosensation in the cancer-related Hv1 channel".
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for such position must hold a second-level degree attained abroad.

**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).** Candidates will take the written tests either in Italian or in English; the interview will be held in English. Candidates applying for the "Additional positions with scholarship reserved to candidates who graduated abroad" will be selected through qualifications assessment (**the minimum score to be admitted to the interview is 7/10**) and interview in person or via videoconference/webcam; the examining committee will draw up specific reports and a separate ranking lists.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **5** points);
- b. *curriculum vitae et studiorum* (up to **3** points);
- c. a maximum of 2 reference letters issued and submitted directly by professors from the university where the degree was awarded or by other professors/researchers who have had direct contact with the applicant. During the online application, the candidate will enter the contact data of the chosen referees who, through a specific online procedure, will have to upload the reference letter in the University portal by June 24, 2020 at 17:00 pm (CET). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **1** point);
- d. scientific publications. Only publications from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to **1** point).

Except for the reference letters, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**WRITTEN TEST: August 31, 2020, at 9:00 (CET),** Aula “Mosca” of the Department of Molecular Medicine – Biology and Genetics section – Via Forlanini n. 14/16, Pavia.

In the written test, to be held in Italian or English language, candidates will have to address one of the topics of the PhD course, either related to basic research or clinical research areas. The results of the written test will be published by September 1, 2020 at 16.00 (CET) on the website of the Department of Molecular Medicine.

**INTERVIEW: September 2, 2020, at 9:30 (CET),** Aula “Mosca” of the Department of Molecular Medicine – Biology and Genetics section – Via Forlanini n. 14/16, Pavia.

Candidates are allowed to take the interview via videoconference. The videoconference must be requested by selecting the appropriate option in the online application procedure (see art. 5 of this Call for applications).

The interview will be held in English. It will verify and assess the candidate’s knowledge of the English language. At the choice of the candidate, the interview will concern some research topics either related to basic research or clinical research areas; it will also focus on the candidate’s education and on the research projects of his/her interest, with the purpose of verifying his/her aptitude towards research.

Candidates who requested to take the interview via videoconference will be informed by the Committee about the date and time of the interview. Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate’s failure to take the interview due to technical difficulties.

**INFORMATION:** <http://molecularmedicine.unipv.it/phd-programme/>

**PLEASE NOTE:** Candidates who are interested in applying for the scholarship funded by the Department of Molecular Medicine, to undertake a project focused on “Structural studies on mechanosensation in the cancer-related Hv1 channel”, must state their interest to the examining committee before the interview; these candidates’ interviews will therefore also include a discussion of the project topics. The examining committee will draw up a specific ranking list.

## **MACRO-AREA OF HUMANISTIC AND SOCIAL SCIENCES**

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### **PhD COURSE IN APPLIED ECONOMICS AND MANAGEMENT (AEM)**

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**LOCATION:** DEPARTMENT OF ECONOMICS AND MANAGEMENT

**DIRECTOR:** Prof. ALBERTO A. GAGGERO

**UNIVERSITY PARTNER:** University of Bergamo. The PhD degree will be jointly issued by the Rector of the University of Pavia and the Rector of the University of Bergamo.

**RESEARCH TOPICS:** applied economics, management.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	2 scholarships funded by the University of Pavia; 3 scholarships funded by the University of Bergamo
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>2</b>	Candidates applying for such position must hold a second-level degree obtained from a foreign university. The examining committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE:** **qualifications assessment and interview via videoconference.** Candidates are allowed to take the interview in English.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 15 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. research project written in Italian or English (max 2000 words) indicating the research topic chosen by the candidate among those listed above. The project's structure should be as follows: general introduction about the state of the art relative to the chosen topic; presentation of the research objectives; description of the methods (procedure, data analysis); discussion of the expected results; evaluation of the theoretical and/or practical implications (up to **3** points);
- b. exam transcript of the master's degree (up to **8** points)
- c. reference letter (no more than one), sent directly by the referee (e.g. a professor from the university where the degree was awarded or by another

professor/researcher who has had direct contact with the applicant). The candidate, during the online application, will enter the personal data of the chosen referee who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 24, 2020 at 17:00 pm (CET). Unlike the other qualifications, this letter must not be uploaded in the website during the online application procedure (up to 2 points);

- d. scientific publications and preprints. The candidate may also send an abstract and indicate the DOI (Digital Object Identifier) or provide a link to a web repository. Only publications from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to 2 points).

Except for the reference letter, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 11/15.**

The results of the qualifications assessment will be published online no later than **July 14, 2020**. The results will be posted on the Department of Economics and Management noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: July 20, 2020, starting from 10:00 am (CET), via videoconference.**

The research project will be discussed during the interview and is meant to verify the candidate's aptitude towards research. The research project will not be binding if the candidate is admitted to the PhD program. The interview will also deal with the contents of the PhD program.

Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <https://sites.google.com/unipv.it/phd-aem/home-page>

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**PhD COURSE**  
**IN PRIVATE LAW, ROMAN LAW AND EUROPEAN LEGAL CULTURE**

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**LOCATION:** DEPARTMENT OF LAW

**DIRECTOR:** Prof. VALERIO MAROTTA

**RESEARCH TOPICS:** Civil Law; Labour Law and Employment Relations; Intellectual Property and Unfair Competition; Roman Law; European Legal Culture.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	5 scholarships funded by the University of Pavia
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<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITION JOINTLY SUPERVISED WITH COMPANIES – Fondazione Human Technopole</b>	<b>1</b>	Such position is reserved to candidates already employed by Fondazione Human Technopole, set in Milano, Via Cristina Belgioioso, n. 171.
<b>ADDITIONAL POSITION RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).**

Candidates are allowed to take the tests in English or French. At the choice of the candidate, the written test will focus on one of the following topics: Civil Law; Labour Law and Employment Relations; Intellectual Property and Unfair Competition; Roman Law; Legal History.

Students applying for the "additional position reserved to candidates with a scholarship from a foreign country" will be selected through qualifications assessment and interview in person or via videoconference/webcam. The Committee will draw up specific reports and a separate ranking list.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English, German, French or Spanish will be assessed during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a) arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **5** points);
- b) scientific publications, excluding the master's degree thesis (up to **2** points);
- c) other relevant qualifications (up to **3** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**WRITTEN TEST: September 16, 2020 at 10:00 (CET),** Department of Law – C.so Strada Nuova n. 65, Pavia.

For the topics concerning the program in "Private Law, Labor Law and Intellectual Property", during the written test candidates will be allowed to consult codes without comments by scholars and without case law.

**INTERVIEW: September 17, 2020 at 11:00 am (CET),** Department of Law – C.so Strada Nuova n. 65, Pavia.

**INFORMATION:** please contact the PhD Director at [valerio.marotta@unipv.it](mailto:valerio.marotta@unipv.it)

The PhD course involves the following programs:

- a) Private Law, Labour Law and Intellectual Property;
- b) Roman Law and European Legal Culture.

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**PhD COURSE**  
**IN PUBLIC LAW, CRIMINAL AND INTERNATIONAL JUSTICE**

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**LOCATION:** DEPARTMENT OF LAW

**DIRECTOR:** Prof. SERGIO SEMINARA

**RESEARCH TOPICS:** general theory, structure and dynamics of Italian and comparative public law; relationships between legal systems (international, European and national systems); administrative law; fundamental rights; constitutional law; citizenship and immigration law; environmental law; domestic and international criminal law; criminology; criminal procedure and enforcement; public and private international law; international organization; institutions of the European Union; judicial cooperation.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>4</b>	4 scholarships funded by the University of Pavia
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>1</b>	
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>2</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).** Candidates applying for the "Additional positions reserved to candidates with a scholarship from a foreign country" will be selected through qualifications assessment and interview, in person or via videoconference/webcam. The commission will draw up specific reports and a separate ranking list.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English, German, French or Spanish will be verified during the interview. Foreign candidates will also have to demonstrate adequate knowledge of Italian.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to 6 points);

- b. scientific publications (up to 4 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**WRITTEN TEST: September 14, 2020 at 9:30 am (CET)**, at the Department of Law – Aula I – C.so Strada Nuova n. 65, Pavia.

During the written test candidates will be allowed to consult codes without comments by scholars and without case law.

**INTERVIEW: September 16, 2020 at 9:30 am (CET)**, at the Department of Law – Aula II – C.so Strada Nuova n. 65, Pavia.

**INFORMATION:** <http://dottorati.unipv.eu/on-dip/phddpgpi/Home.html>

The PhD course involves the following programs:

- a) Public law;
- b) Criminal and international justice.

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## PhD COURSE IN ECONOMICS

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**LOCATION:** DEPARTMENT OF ECONOMICS AND MANAGEMENT

**DIRECTOR:** Prof. EDUARDO ROSSI

**PARTNER UNIVERSITY:** University of Milano. The PhD degree will be jointly issued by the Rector of the University of Pavia and the Rector of the University of Milano.

**RESEARCH TOPICS:**

**Carried out at the University of Pavia:**

Applied Industrial Organization; Regulation and Competition in the Pharmaceutical Market; Culture and Economics; Gender Economics; Educational Choices; International Trade; DSGE Models with Endogenous Firms Dynamics; DSGE Models with Labor Market Imperfections; Monetary and Fiscal Policy; Inflation Dynamics; Macro and Financial Stability; Economics of Crime; Financial Econometrics; Empirical Finance; Political Economy; Structure, Scope and Performance of Government; Global Value Chains; Technological Catch Up; Development economics.

**Carried out at the University of Milano:**

Risk and Time Preferences; Experimental Economics; Behavioral Economics and Policy; Information and Market Power; Competition in Quality and Regulation; Industrial Organization of the Health Sector; Health Economics; Research and Teaching Evaluation; Evaluation of Labor Market Reforms; Effects of Occupational Licensing; Inequality and Social Mobility; Inequality and Polarization of the Labor Market; Taxation and Redistributive Policies; Tax Evasion; Empirical Analysis of Taxation; Public Debt; Cost-Benefit Analysis of Projects and Policies; Public Enterprises and Privatization; Income Inequality and Poverty; Economics of Multinational

Firms; Firms' Dynamics and Growth; Economics of Migration; Applied Energy Economics; Environment and Economic Growth; Economic Assessment of Climate Change Impacts; Climate Change, Migration and Agriculture; Agricultural and Food Policies; Macroeconometric Modelling.

For more information on the research topics, see <http://www.phdeconomics.unimi.it/>

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>7</b>	3 scholarships funded by the University of Pavia; 3 scholarships funded by the University of Milano;  1 scholarship funded by the Department of Excellence of Economics, Management and Quantitative Methods of the University of Milano, to undertake research in "The use of empirical methods, with an emphasis on computational and machine learning techniques, to study the socio-economic impact of social and technological transformations"
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>0</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD:</b>	<b>1</b>	Candidates applying for such position must hold a second-level degree attained abroad. The examining committee will draw up specific reports and a separate ranking list.

**ADMISSION PROCEDURE: qualifications assessment and interview via videoconference.** Candidates will be interviewed in English.

**QUALIFICATIONS ASSESSMENT: UP TO 15 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. research project written in English (max 2000 words) indicating the research topic chosen by the candidate among those listed above. The project's structure should be as follows: general introduction about the state of the art relative to the chosen topic; presentation of the research objectives; description of the methods (procedure, data analysis); discussion of the expected results; evaluation of the theoretical and/or practical implications (up to **4** points);
- b. exams taken during the candidate's Master course, bearing the marks (up to **5** points);
- c. reference letter (no more than one), issued and submitted directly by a professor from the university where the degree was awarded or by another professor/researcher who has had direct contact with the applicant. The candidate, during the online application, will enter the personal data of the chosen referee who, through a specific online procedure, will have to submit the reference letter directly to the University administration by June 19, 2020 at 17:00 pm (Italian time). Unlike the other qualifications, this letter must not be uploaded in the website during the online application procedure (up to **2** points);
- d. abstract of the Master thesis (max 1000 words), publications and preprints. Concerning publications and preprints, candidates may also send an abstract and indicate a DOI (Digital Object Identifier), or else provide a link to a web repository. Only publications from the last 5

years that are congruent with the research topics of the PhD course will be considered (up to 2 points);

e. *curriculum vitae* (up to 2 points).

Except for the reference letter, the qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 10/15.**

The results of the qualifications assessment will be published online no later than **July 14, 2020**. The results will be posted on the Department of Economics and Management noticeboard and in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: July 20, 2020, starting from 10:00 am (CET).**

Candidates will be interviewed in English via videoconferencing. The interview will verify and assess the candidate's knowledge of the English language. The research project will be discussed during the interview and is meant to verify the candidate's aptitude towards research. The interview will deal with the research project, as well as with the contents of the PhD course.

Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://www.phdeconomics.unimi.it/>

**PLEASE NOTE:** Candidates who are interested in applying for the scholarship funded by the Department of Excellence of Economics, Management and Quantitative Methods of the University of Milano, to undertake research in "The use of empirical methods, with an emphasis on computational and machine learning techniques, to study the socio-economic impact of social and technological transformations", must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up a specific ranking list.

**AMOUNT OF THE SCHOLARSHIPS AND PhD STUDENTS MEMBERSHIP TO A DEPARTMENT**

Each scholarship funded by the University of Pavia has a gross annual amount of € 15343.28. Each scholarship funded by the University of Milano has a gross annual amount of € 16350.00. The scholarships funded by the University of Pavia will be awarded to PhD students with a membership to the Department of Economics and Management of the University of Pavia. The scholarships funded by the University of Milano will be awarded to PhD students with a membership to the Department of Economics, Management and Quantitative Methods of the University of Milano.

**DETERMINATION OF THE MEMBERSHIP TO A DEPARTMENT**

Once the ranking list of the selected candidates has been determined, the PhD Academic Board will attribute to each of them the membership to one of the two departments, on the basis of the research topic chosen by the candidate among those listed above and indicated in the research project submitted during the application procedure, and using the ranking order as a priority criterion of preference satisfaction, until the scholarships of one of the two Universities have all

been attributed. Then, the remaining winners will be assigned to the other department, irrespective of their indicated preference.

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**PhD COURSE**  
**IN SCIENCES OF THE LITERARY AND MUSICAL TEXT**

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**LOCATION:** DEPARTMENT OF HUMANITIES

**DIRECTOR:** Prof. PIETRO BENZONI

**RESEARCH TOPICS:** Textual Criticism from the Middle Ages to the Present; Critical Editions of Texts and Literary Criticism from the Middle Ages to the 21st Century; History of Italian Language; History of Theatre and Cinema; Modern Foreign Languages and Literatures; Musicology.

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	4 scholarships funded by the University of Pavia; 1 scholarship "Luigi Meneghello" funded by the Maria Corti Foundation, to undertake research linked to the work of Luigi Meneghello.
<b>POSITIONS WITHOUT SCHOLARSHIP</b>	<b>2</b>	
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>1</b>	Candidates applying for such position must hold a second-level degree attained abroad.

**ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview).** Candidates applying for the "Additional positions with scholarship reserved to candidates who graduated abroad" will be selected through qualifications assessment (**the minimum score to be admitted to the interview is 7/10**) and an interview in person or via videoconference. The examining committee will draw up specific reports and a separate ranking list.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English, French, German, Spanish or Russian will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a) summary of the second-level degree thesis in Italian or English (max. 1000 words) (up to 1 point);
- b) marks obtained in the exams taken during the candidate's degree courses (up to 1 point);

- c) research project, either in Italian or in English (max. 3000 words, bibliography not counted), related to research topics pertaining to the programs listed below. The project's structure should be as follows: general introduction about the state of the art relative to the chosen topic; presentation of the research objectives; description of the methods and the sources the candidate intends to use; discussion of expected results (up to **8** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 7/10.**

The results of the qualifications assessment will be published online no later than **September 16, 2020**. The results will be posted in the Personal Area of the candidates in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: September 23, 2020, at 9:00 (CET), at the** Department of Humanities, Literature section, C.so Strada Nuova n. 65, Pavia.

The interview will be in either Italian or the foreign language chosen by the candidate among those listed above and will concern:

- 1) a thorough discussion of the research project;
- 2) the assessment of the candidate's competence related to the chosen program;
- 3) the assessment of the knowledge of one of the following languages: English, French, German, Spanish, Russian.

**INFORMATION:** please contact [pietro.benzoni@unipv.it](mailto:pietro.benzoni@unipv.it) (program in Modern Philology), [donatella.mazza@unipv.it](mailto:donatella.mazza@unipv.it) (program in Modern Foreign Languages and Literatures), [fabrizio.dellaseta@unipv.it](mailto:fabrizio.dellaseta@unipv.it) (program in Musicology).

**PLEASE NOTE:** Candidates who are interested in applying for the scholarship "Luigi Meneghella" funded by the Maria Corti Foundation, to undertake research linked to the work of Luigi Meneghella must state their interest to the examining committee before the interview; these candidates' interviews will therefore also include a discussion of the project topics. The examining committee will draw up a specific ranking list.

The PhD course involves the following programs:

**MODERN PHILOLOGY**

Research areas:

1. Genetic criticism and textual tradition; critical editions of texts from the origins to the 20<sup>th</sup> century;
2. History of literary criticism;
3. Theory of literature;
4. Renaissance and Modern literature and culture;
5. Italian linguistics;
6. Edition and comment of early Romance texts;
7. Drama and performance. Film language: analysis and criticism;
8. Metrical theory and analysis;

9. Reception of Greek and Latin texts in modern literatures.

#### **MODERN FOREIGN LANGUAGES AND LITERATURES**

Research areas:

The program covers 6 areas, interacting also on a comparative basis: English studies; Germanic philology; French studies; German studies; Spanish studies; Slavonic studies. Within these linguistic areas, the following fields are foregrounded:

1. Critical edition and analysis of Medieval Germanic texts;
2. Ancient book studies;
3. Criticism of the European novel;
4. Textual analysis and criticism (theory and practice);
5. Literary translation;
6. Language studies;
7. History of theatre and drama (script and performance).

#### **MUSICOLOGY**

Research areas:

1. Critical edition of musics from the Middle Ages to the 21<sup>st</sup> century;
2. Music theories and analysis from the Middle Ages to the 21<sup>st</sup> century;
3. Musical theatre from the 17<sup>th</sup> to the 21<sup>st</sup> century;
4. Music and literature;
5. Music and media;
6. Organology and music iconography;
7. Ethnomusicology;
8. Popular music.

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### **PHD COURSE IN HISTORY**

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**LOCATION:** DEPARTMENT OF POLITICAL AND SOCIAL SCIENCES

**DIRECTOR:** Prof. PIERLUIGI VALSECCHI

**RESEARCH TOPICS:** Pre-classical ancient Near East; Ancient history and historiography; Greek, Etruscan-Italic and Roman archaeology, topography and art; History and civilization of Greek and Latin Middle Age; Modern and Contemporary History; Constitutional and Administrative History; History and Politics of European Integration; History of Asia and Africa.

**PhD students will be required to spend a research period abroad of not less than 12 months over the three years.**

For further information on the research topics please visit the PhD course website:  
<http://phdstoria.unipv.eu/site/en/home.html>

<b>POSITIONS WITH SCHOLARSHIP</b>	<b>5</b>	5 scholarships funded by the University of Pavia. Applications for these positions are invited from candidates holding a second-level degree attained in Italy or abroad (see art. 2 of this Call for applications)
<b>ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES WHO GRADUATED ABROAD</b>	<b>2</b>	Such positions are reserved to candidates holding a second-level degree attained abroad.
<b>ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY</b>	<b>1</b>	The "Additional positions reserved to candidates with a scholarship from a foreign country" are reserved to candidates holding, at the time of the enrollment onto the PhD course, a scholarship of the same duration of a PhD course. The University of Pavia does not provide PhD scholarships for such positions.

For each category of additional positions, the Committee will draw up specific reports and separate ranking lists.

**ADMISSION PROCEDURE: qualifications assessment and interview via videoconference.** Candidates are allowed to take the interview in English.

**LINGUISTIC KNOWLEDGE:** candidates' knowledge of English will be verified during the interview.

**QUALIFICATIONS ASSESSMENT: UP TO 10 POINTS ARE ASSIGNED UPON ASSESSMENT OF EACH CANDIDATE'S QUALIFICATIONS, AS FOLLOWS:**

- a. exams taken during the candidate's degree courses, including the marks (up to **2** points);
- b. post lauream diplomas (specialization schools, Italian Master courses); participation in archaeological excavation campaigns in a supervisory position; collaborations with libraries/museums/archives, with medium-high tasks; proven training period abroad; possible additional work or research activities at qualified institutions (subject to the approval of the committee). All the above-mentioned activities must be proved by the upload of certificates issued by the management, bearing the dates (up to **1** point);
- c. publications (only if already published or accepted for publication; a pdf file, as well as the full data on the publisher, must be provided); conference reports already accepted for printing (a certificate issued by the editor or the conference organizer must be provided). Only publications and conference reports from the last 5 years that are congruent with the research topics of the PhD course will be considered (up to **2** points);
- d. research project in Italian or English (max 16000 characters, spaces included; bibliography, sources and figures not counted), related to one of the above-mentioned PhD research fields. The research project is to be structured as follows: short background introduction on the literature on the subject chosen by the candidate; presentation of the conceived research project and its goals; discussion of the expected outcomes with evaluation/indication of the

contribute added to the disciplinary fields involved; preliminary statement on the carrying out of the research during the 3 years of the PhD course (up to 5 points).

Candidates must enclose their *curriculum vitae* to the application together with the above-listed qualifications.

The qualifications must be submitted according to the procedure indicated in art. 5, para. 3 of this call for applications.

**The minimum score to be admitted to the interview is 6/10.**

The results of the qualifications assessment will be announced no later than **July 17, 2020**. The results will be posted on the Department of Humanities and in the Department of Political and Social Sciences noticeboards, as well as in the Personal Area of the candidate in the University website. This can be accessed using the login information provided at the end of the registration procedure.

**INTERVIEW: July 22, 2020, starting from 10:00 am (CET), via videoconference.**

The interview will be held in Italian or English and will verify the candidate's knowledge of the English language. The interview will deal with the research project in order to verify the candidate's aptitude towards research and his/her background in the research project field of studies. The research project will not be binding if the candidate is admitted onto the PhD course.

Before the interview, candidates will be asked to show the same valid identity document whose details were entered during the application procedure. The University of Pavia does not take any responsibility for a candidate's failure to take the interview due to technical difficulties.

**INFORMATION:** <http://phdstoria.unipv.eu/site/en/home.html>