

UNIVERSITA' DEGLI STUDI DI PAVIA

SUBJECT: Public competition for admission to PhD courses - XXXIII cycle - academic year 2017/2018

THE RECTOR

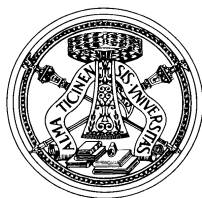
- CONSIDERING** Law n. 210 of July 3, 1998, art. 4;
- CONSIDERING** Law n. 240 of December 30, 2010, art. 19;
- CONSIDERING** the Ministerial Decree n. 45 of February 8, 2013;
- CONSIDERING** the University of Pavia Statute;
- CONSIDERING** the University of Pavia "Regulations for PhD courses" n. 1223 of July 24, 2013;
- CONSIDERING** the "Technical report on the activation of the PhD courses – XXXIII cycle" issued by the Internal Evaluation Unit;
- CONSIDERING** the resolution of the Academic Senate of April 21, 2017;
- CONSIDERING** the resolution of the Administrative Council of April 27, 2017;
- CONSIDERING** the need to issue the call for applications for public competitions to be admitted to the PhD courses, XXXIII cycle, administered by the University of Pavia

DECREES

Art. 1 *Activation*

1. The University of Pavia hereby announces public competitions for admission to the XXXIII cycle (academic year 2017/2018) of PhD courses, listed below according to their macro-areas:

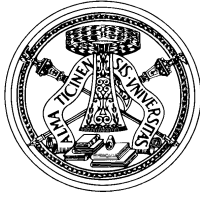
<u>MACRO-AREA OF SCIENCE AND TECHNOLOGY</u>	
1	PHYSICS
2	MATHEMATICS CIAFM consortium: University of Pavia, University of Milano-Bicocca, Istituto Nazionale di Alta Matematica "Francesco Severi"
3	CHEMICAL AND PHARMACEUTICAL SCIENCES, AND RELATED INDUSTRIAL INNOVATION
4	EARTH AND ENVIRONMENTAL SCIENCES
5	DESIGN, MODELING AND SIMULATION IN ENGINEERING
6	ELECTRONICS, COMPUTER SCIENCE AND ELECTRICAL ENGINEERING



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7	MICROELECTRONICS
8	HEALTH TECHNOLOGIES, BIOENGINEERING AND BIOINFORMATICS
<u>MACRO-AREA OF LIFE SCIENCE</u>	
9	GENETICS, MOLECULAR AND CELLULAR BIOLOGY
10	EXPERIMENTAL MEDICINE
11	PSYCHOLOGY, NEUROSCIENCE AND DATA SCIENCE
12	BIOMEDICAL SCIENCES
13	TRANSLATIONAL MEDICINE
<u>MACRO-AREA OF HUMANISTIC AND SOCIAL SCIENCES</u>	
14	PRIVATE LAW, ROMAN LAW AND EUROPEAN LEGAL CULTURE
15	PUBLIC LAW, CRIMINAL AND INTERNATIONAL JUSTICE
16	ECONOMICS
17	SCIENCES OF THE LITERARY AND MUSICAL TEXT
18	LANGUAGE SCIENCES
19	HISTORY

2. In Annex 1 (p. 14 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 programmes offered are specified. A regularly updated search engine displaying the research projects included in each PhD course is available at <http://phd.unipv.it/progetti/>.
3. The PhD courses have a legal duration of three years, starting from October 1, 2017.
4. The PhD courses activation is subject 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 confirmation by ANVUR.
5. The number of PhD positions mentioned in Annex 1 (p. 14 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.
6. The funding provided by external entities will be assigned provided an agreement is reached between the University and the entity involved.
7. **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://www.unipv.it/dottorati> website.**



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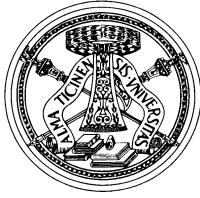
8. The presentation of the application as outlined in art. 5 implies the acceptance by the candidate of the rules contained in this call for applications. Failure to respect these rules will result in the candidate being excluded from the competition.

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 purposes only. The foreign 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 attach as uploads, 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, 2017. **Failure to attain the degree within October 31, 2017 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) to the University administration office, no later than October 31, 2017:
 - i. in case of degree attained in Italy: a self-declaration, conforming to the model available at <http://www.unipv.it/phdcourses>, 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 <http://www.unipv.it/phdcourses>, 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.



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2. Applications from candidates already enrolled in a PhD course at the University of Pavia will not be accepted.

Art. 3

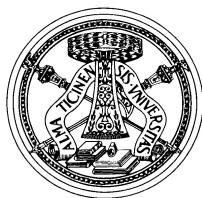
Additional PhD reserved to candidates employed by companies, institutes or public research centres in highly qualified positions and additional PhD positions in higher-education apprenticeships

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, 2017. 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.
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 programme, additional positions with scholarship reserved to candidates graduated abroad, additional positions without scholarship reserved to candidates graduated abroad

1. 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 programme" will be subject to a check by the University administration on the actual availability of the funding whose ownership is declared by the candidate.
2. "Additional position with scholarship reserved to candidates graduated abroad" are reserved to candidates holding both a first-level and a second-level university degree attained abroad.
3. "Additional positions without scholarship reserved to candidates graduated abroad" are reserved to candidates holding at least a second-level university degree attained abroad.
4. For each of the categories mentioned in this article, 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. This is aimed at verifying candidates' competence, ability and aptitude for research and their knowledge of Italian and/or English.
5. Candidates must select the appropriate administrative category, if available for their chosen PhD course, during the application procedure.
6. For each of the categories mentioned in this article, the examining committee will draw up specific reports and separate ranking lists.



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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 **July 14, 2017 at 17:00 pm (Italian time)**. **Applications can only be made via the online procedure in the candidates' Personal Area** at the following link: https://studentonline.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 July 14, 2017**. **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 programmes" are exempted from the application fee.

2. Candidates must be registered on the Esse3 system in order to access the online procedure. Candidates who have yet to register should 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 data already present in the database, in particular 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 left-hand menu, then, from the same menu, the "Admission test" item, and then the PhD competition in which they would like to take part.

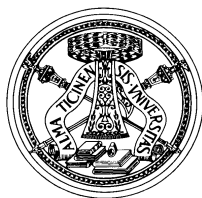
During the application procedure, candidates have to:

- enter the information regarding their degree course and the details of a valid identity document; 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;
- 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. 14 ff.);
- attach, via an upload, proof of the qualifications required for their chosen PhD competition (see Annex 1, p. 14 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 qualifications¹ issued by the Public Administration by means of a self-declaration, pursuant to art. 46 of D.P.R. 445/2000. The self-declaration

¹ 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 Public Administration:



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must be duly dated and subscribed. The self-declaration regarding the exams taken must conform to the model available at <http://www.unipv.it/phdcourses> 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.**

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. 14 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, via the medical committees, a medical certificate issued by the competent health authorities. 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:

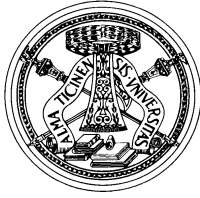
- delivery to the SAISD office during the opening times (available at <http://saisd.unipv.it/contact>);
- e-mail to disabili@unipv.it, together with a copy of a valid identity document;
- fax to +39 (0)382/984954;
- registered letter with acknowledgement of receipt to: Centro Servizio di Ateneo - Servizio 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 Sports, 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, 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. 14

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- a) enrolment in professional organisations or on lists managed by 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.



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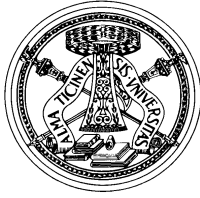
ff.), and possibly send a reminder to the referee/s already inserted. **The modifications will be permanently saved provided that the candidate bring the full application again to a conclusion.**

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

At the end of the procedure, candidates have to print the application form and **pay by July 14, 2017 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 can be paid with one of the following methods:

- via MAV (Payment against notice). The MAV can be paid, commission free, at any branch of the “Banca Popolare Commercio e Industria” or across the counter at any credit institution in Italy. The payment can also be made through internet banking (only in case of Italian banks) or using a PagoBANCOMAT payment card at any “Gruppo Unione di Banche Italiane” bank ATM. The MAV is enclosed to the application form and also available in the candidates’ Personal Area in the “Payments” section (“Print MAV” button);
- **via PagoPA, which allows the online payment via credit card.** The PagoPA procedure can be accessed through the “Payments” section of the candidates’ Personal Area, by clicking on the invoice number and then on the “Pay via PagoPA” button. The payment will be uploaded in the “Payments” section of the Personal Area within approximately an hour.
- via bank transfer to UNIVERSITÀ DEGLI STUDI DI PAVIA – SERVIZIO TESORERIA c/o UBI Banca - Sede di Pavia, IBAN IT 38 H 03111 11300 000000046566, SWIFT: BLOPIT22776, BIC: POCIITM1XXX, account n. 46566. The costs of the bank operation will have to be charged entirely by the candidate; therefore, while making the bank transfer the candidate will have to select the OUR code instead of the SHARE one. The name of the candidate must be specified in the “reason for payment” field. **In case of payment via bank transfer, copy of the payment receipt must be sent to concorso-dottorati@unipv.it by the deadline of July 14, 2017.**

3. **The application form must be printed and submitted to the examining committee on the day of the first on-site test. Candidates who will not take any on-site test have to send the signed application form, together with a copy of a valid identity document, to concorso-dottorati@unipv.it by the date of the interview.**
4. 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 <http://www.unipv.it/dottorati> website the list of the candidates admitted to the selection procedure will be published for each PhD course.
5. 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.
6. 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.



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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 on 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. The composition of the examining committees will be published, after the announcement deadline has passed, on the <http://www.unipv.it/dottorati> 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. *Selection procedure by qualifications assessment and tests (written test and interview)*

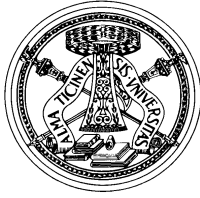
The selection procedure by qualifications assessment and tests consists of a comparative assessment of the qualifications submitted by candidates, as well as two tests. The admission tests consist of a written test and an interview, including a verification of candidates' knowledge of a foreign language, selected from those listed for each PhD courses and indicated 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. If specified in Annex 1 (p. 14 ff.), the written test can be taken either at the University of Pavia or at foreign locations.

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. 14 ff.), candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will confirm the receipt of such request. 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.

3. *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



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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.

4. *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 are admitted to the ranking list.
5. 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.
6. 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.
7. The President of the Examining Committee will submit to the Rector the competition reports.
8. **The admission tests schedule, indicated in Annex 1 of this call, is equivalent to a notification to applicants. Possible modifications in the dates and locations of the tests will be announced on the <http://www.unipv.it/dottorati> website. Candidates will not receive any further communication from the University administration office.**
9. **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. Candidates will also have to sign the printed application form which must then be handed in to the Committee.**
10. **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.

Art. 10

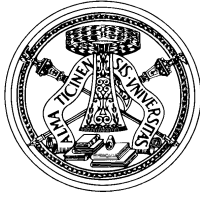
Public Administration employees

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

Art. 11

PhD course 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 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 left-hand menu and then



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on "Admission test". **Candidates will not be informed personally: the publication of the ranking list is equivalent to an official notice to applicants.**

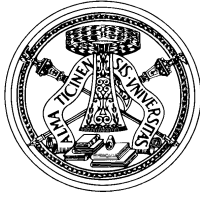
2. Candidates can appeal against the approval of the ranking list to the TAR (Regional Administrative Tribunal) within 60 days from the publication of the results on the University's official noticeboard, or make a special appeal to the President of the Republic within 120 days; in the absence of an appeal, the provision shall be incontrovertible.
3. **Successful applicants must enrol** in the PhD course by following the instructions provided on the <http://www.unipv.it/dottorati> website.
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, 2017 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 visa, residence permit or application for the residence permit.
7. Competition winners will have to pay, through MAV (Payment against notice) 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://studentonline.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://studentonline.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 € 13638.47, 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.



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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 2nd 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

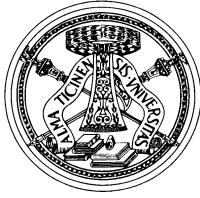
PhD students' teaching activity

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 are allowed to 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, are allowed to 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.



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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 Ethical Code, available at the following link: <http://www.unipv.eu/site/home/ateneo/statuto-e-regolamenti/codice-etico.html>

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. 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

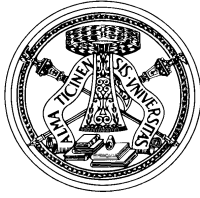
Use of personal data

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, 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, e-mail concorso-dottorati@unipv.it.

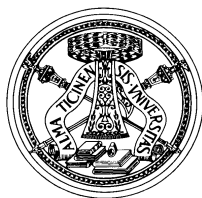


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Art. 21 Final regulations

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, June 6, 2017



ANNEX 1

MACRO-AREA OF SCIENCE AND TECHNOLOGY

PHD COURSE IN PHYSICS

LOCATION: DEPARTMENT OF PHYSICS

DIRECTOR: Prof. LUCIO ANDREANI

DURATION: 3 years

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)

POSITIONS WITH SCHOLARSHIP	9	6 scholarships funded by the University of Pavia; 2 scholarships funded by the National Institute of Nuclear Physics; 1 scholarship funded by ERC to undertake research on "Theoretical study of the partonic structure of nucleons"
POSITIONS WITHOUT SCHOLARSHIP	3	
TOTAL POSITIONS	12	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

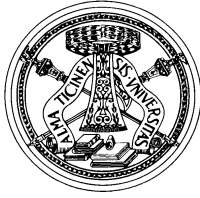
Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL PHD POSITION JOINTLY-SUPERVISED WITH COMPANIES: 1 – IBM Italia – set in Segrate (MI)

ADMISSION PROCEDURE: qualifications assessment and interview: candidates are allowed to take the interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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



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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: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- a) exams taken during the candidate's degree courses, bearing the marks (up to **4** points);
- b) Master's degree thesis, publications and possible 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 experience (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 submit the reference letter directly to the University administration by July 14, 2017 at 17:00 pm (Italian time). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **2** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The results of the qualifications assessment will be published online no later than **September 7, 2017**.

The results will be posted on the Physics Department noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 14, 2017, at 9:00 (Italian time), Physics Department, Via Bassi n. 6, Pavia.

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

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of **September 14, 2017**. 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/

The PhD course involves the following programmes:

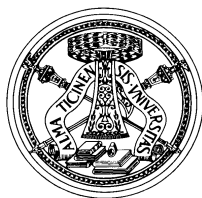
1. Physics of Fundamental Interactions (Nuclear and Subnuclear Physics, Theoretical and Mathematical Physics);
2. Condensed Matter, Optical Physics, Quantum Information;
3. Interdisciplinary and Applied Physics.

PLEASE NOTE: Candidates who are interested in the scholarship funded by ERC, to undertake research within the topic "Theoretical study of the partonic structure of nucleons", 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.

JOINED PHD COURSE IN MATHEMATICS

LOCATION: "F. CASORATI" DEPARTMENT OF MATHEMATICS

DIRECTOR: Prof. THOMAS WEIGEL - University of Milano-Bicocca



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CIAFM COOPERATING INSTITUTIONS: University of Milano-Bicocca, Istituto Nazionale di Alta Matematica “Francesco Severi”.

The PhD degree will be jointly conferred by the Rector of the University of Pavia and the Rector of the University of Milano-Bicocca.

DURATION: 3 years

The following programmes are scheduled:

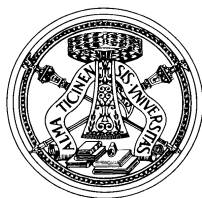
- Algebra and Geometry;
- Mathematical Analysis;
- Numerical Analysis and Mathematical Modelling;
- Mathematical Physics, Probability and Statistics.

RESEARCH TOPICS (with indications of the location where they are developed):

- Algebra: group theory, theory of Lie algebras and their representations (MILANO-BICOCCA); category theory (PAVIA). Geometry: algebraic geometry (PAVIA), real and complex differential geometry (MILANO-BICOCCA and PAVIA), symplectic geometry (MILANO-BICOCCA) and hyperbolic geometry (PAVIA).
- Mathematical Analysis: partial differential equations and their applications in Physics, Biology and Engineering; control and optimization theory, nonlinear and functional analysis (MILANO-BICOCCA and PAVIA); harmonic and geometric analysis (MILANO-BICOCCA); variational models and techniques, calculus of variations (PAVIA).
- Numerical Analysis and Mathematical Modelling: study of numerical methods (such as finite elements, isogeometric and virtual techniques) aimed at solving partial differential equations in the context of solid mechanics, fluid dynamics, interaction between fluids and structures, electromagnetism, and and with focus on applications in engineering and biomathematics; constrained optimization models and methods; computer aided design, approximations of data and functions, numerical linear algebra (MILANO-BICOCCA and PAVIA).
- Mathematical Physics: special materials, fluid mechanics, kinetic theory, classical and quantistic field theory, complex systems (PAVIA); geometric theory of integrable systems and dynamical systems (MILANO-BICOCCA). Probability and statistics: Bayesian statistics, quantum probability, convergence of probability measures, finitely additive probability measures (PAVIA); statistical mechanics (MILANO-BICOCCA and PAVIA); random walks, systems with interacting particles, stochastic differential equations, stochastic control theory, financial mathematics (MILANO-BICOCCA).

A more detailed description of the research interests of the members of the Academic Board of the PhD course and of the research topics carried out by the two participating departments is available at the website <http://phdmat.unipv.eu/site/en/home.html>, as well as at the websites of the departments.

POSITIONS WITH SCHOLARSHIP	12	5 scholarships funded by the University of Pavia; 4 scholarships funded by the University of Milano-Bicocca; 2 scholarships funded by the Istituto Nazionale di Alta Matematica “Francesco Severi”; 1 scholarship funded by the Department of Political and Social Sciences, to undertake research in “Distributed statistical methods for high dimensional data”
POSITIONS WITHOUT SCHOLARSHIP	2	



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TOTAL POSITIONS	14
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ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADMISSION PROCEDURE: qualification assessment and interview. Candidates are allowed to take the interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATION ASSESSMENT: 15 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

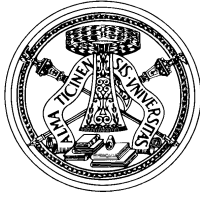
- a) *curriculum vitae* (up to **3** points);
- b) exams taken during the candidate's degree courses, including the marks, their weighted mean and their arithmetic mean. The honours must not be included in the calculation of the weighted and arithmetic means (up to **5** points);
- c) at least one reference letter 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 July 14, 2017 at 17:00 pm (Italian time). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **4** points);
- d) abstract of the Master thesis, preprints and publications. 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 (up to **3** points).

In addition to the above-mentioned qualifications, candidates will have to submit a motivation letter, specifying which of the two participating departments they find most suited to their scientific interests (Department of Pure and Applied Mathematics at the University of Milano Bicocca, or “F. Casorati” Department of Mathematics of the University of Pavia). The candidate's choice must be scientifically motivated. The motivation letter will not be assessed, but it will be used as a starting point for the interview.

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The results of the qualification assessment will be published online no later than **August 28, 2017**. The results will be posted on the noticeboard of the “F. Casorati” Department of Mathematics of the University of Pavia, on the noticeboard of the Department of Mathematics and its Applications of University of Milano-Bicocca and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure. The results may also be made available on the websites of the two Departments involved and/or on the PhD programme website.

INTERVIEW: September 4, 2017, at 10:00 (Italian time) – Dipartimento di Matematica “F. Casorati” - via Ferrata n. 5 – Pavia. In case of a large number of candidates, the interview may be scheduled over two or more days. In this case, candidates will be informed after the publication of the qualifications assessment results on the



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date of their interview.

The interview will concern the research topics covered by the PhD course and will also refer to the motivation letter submitted by the candidate during the application procedure. Candidates are encouraged to prepare a presentation (no more than 15 minutes) using a whiteboard or pdf-file slides.

The interview by videoconference, where required, will start at 14:00 (Italian time) of September 4, 2017. 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://phdmat.unipv.eu/site/en/home.html>

PLEASE NOTE: Candidates who are interested in the scholarship funded by the Department of Political and Social Sciences, to undertake research in "Distributed statistical methods for high dimensional data", 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 AFFILIATION TO A DEPARTMENT

Each scholarship funded by the University of Pavia or by INdAM has a gross annual amount of € 13638.47.

Each scholarship funded by the University of Milano-Bicocca has a gross annual amount of € 16238.47.

The scholarships funded by the University of Pavia will be awarded to PhD students with a membership to the "F. Casorati" Department of Mathematics of the University of Pavia.

The scholarships funded by the University of Milano-Bicocca will be awarded to PhD students with a membership to the Department of Mathematics and its Applications of the University of Milano-Bicocca.

The scholarships funded by INdAM are compatible with either membership according with the provisions below.

DETERMINATION OF THE AFFILIATION TO A DEPARTMENT

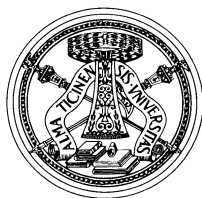
Once the ranking list of the selected candidates has been determined, the Academic Board of the PhD course will attribute to each of them the affiliation to one of the two departments involved, based upon the preference expressed in the motivation letter, and using the ranking order as a priority criterion, until all the scholarships of one of the two Universities have been assigned. To the first winner, in descending order of the ranking list, who is unable to obtain a scholarship from his/her preferred University, an INdAM scholarship will be assigned; this candidate will be allowed to choose his/her affiliation. Once all the scholarships of either one of the two Universities and the first INdAM scholarship have all been attributed, the remaining winners will be assigned to the other department, irrespective of their indicated preference, and will be attributed the University scholarships first and then the second INdAM scholarship.

POSITIONS WITHOUT SCHOLARSHIP

One of the winners of the two positions without scholarship will be assigned to the Department of Mathematics and its Applications of the University of Milano-Bicocca, and the other to the "F. Casorati" Department of Mathematics of the University of Pavia. This assignment will follow the general criterion based on preferences and ranking described for the positions with scholarship. Nonetheless, for the positions without scholarship the Academic Board of the PhD course may decide differently to this general criterion, in light of the research interests of the candidates and of the possible existence of external funding sources.

MOTIVATION LETTER AND RESEARCH ACTIVITY

The Academic Board will assign a tutor to each PhD student, based on the motivation letter presented for the selection process and on the information collected during the interview. The tutor will be in charge of the supervision and guidance of the initial phase of the PhD career of the student. However, the motivation letter, the information collected during the interview and the choice of the tutor will not be strictly binding for the following and final choice of a research theme and dissertation topic by the student him/herself. The topic of



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the dissertation may be chosen within the research interests of the members of the Academic Board or, after authorization by the Board itself, of other external scholars.

PHD COURSE IN CHEMICAL AND PHARMACEUTICAL SCIENCES, AND RELATED INDUSTRIAL INNOVATION

LOCATION: DEPARTMENT OF CHEMISTRY

DIRECTOR: Prof. PIERCARLO MUSTARELLI

DURATION: 3 years

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

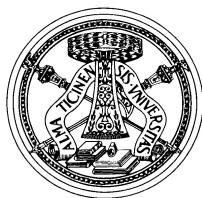
POSITIONS WITH SCHOLARSHIP	9	7 scholarships funded by the University of Pavia; 1 scholarship funded by Humana H.P. to undertake research in "Development of additives for early childhood" 1 scholarship funded by the Department of Chemistry - VIPCAT project, to undertake research in "Development of new high-atom-economy, eco-friendly processes".
POSITIONS WITHOUT SCHOLARSHIP	3	
TOTAL POSITIONS	11	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL PHD POSITION JOINTLY-SUPERVISED WITH COMPANIES: 1 – IBSA Farmaceutici Italia s.r.l. – set in Lodi, via Martiri di Cefalonia n. 2.



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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: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- a) arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to 8 points). In case of degree attained in a foreign institution, the committee will use the ECTS grading tables;
- b) post-graduate research activity (research scholarships or grants and/or internships) carried out in the field of chemical and pharmaceutical sciences, within 18 months from the date of the degree attainment (up to 2 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

WRITTEN TEST: September 25, 2017, at 14:00 pm (Italian time), at the Department of Chemistry – Aula I (Organic Chemistry Section) – Viale Taramelli n. 10 – Pavia

INTERVIEW: September 28, 2017, at 10:00 (Italian time), at the Department of Chemistry – Aula I (Organic Chemistry Section) – Viale Taramelli n. 10 – 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.

INFORMATION: please contact the PhD Director at piercarlo.mustarelli@unipv.it

The PhD course involves the following programmes:

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

PLEASE NOTE: Candidates who are interested in the scholarships funded by Humana H.P. to undertake research in “Development of additives for early childhood” or in the scholarship funded by the Department of Chemistry - VIPCAT project to undertake research in “Development of new high-atom-economy, eco-friendly processes” 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.

PHD COURSE IN EARTH AND ENVIRONMENTAL SCIENCES

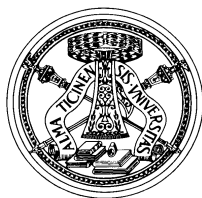
LOCATION: DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES

DIRECTOR: Prof. ROBERTO SACCHI

DURATION: 3 years

RESEARCH TOPICS:

- Evolutionary ecology of vertebrates
- Alien species in marine environment
- Land management and risk mitigation
- Stratigraphy and paleogeographic reconstructions
- Geobarometry in UHP metamorphic rocks
- Geodynamic exhumation modelling
- Geomaterials and secondary raw materials
- Mantle bodies within the middle continental crust
- Soil erosion dynamics



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- Elastic geobarometry
- Basin analysis and modeling of tectonic structures
- Advanced analytical techniques for hydrocarbon research
- Environmental impact and bioremediation

POSITIONS WITH SCHOLARSHIP	8	4 scholarships funded by the University of Pavia; 3 scholarship funded by the Department of Earth and Environmental Sciences (ENI funds) to undertake research in “Basin analysis and modeling of tectonic structures”, “Advanced analytical techniques for hydrocarbon research” and “Environmental impact and bioremediation”; 1 scholarship funded by the Department of Earth and Environmental Sciences (ERC funds) to undertake research in “Elastic geobarometry”
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	9	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADMISSION PROCEDURE: qualifications assessment and interview.

Candidates living abroad are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time); The PhD office will acknowledge receipt of the e-mail.

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

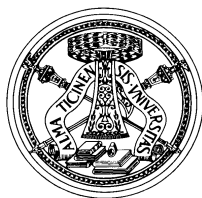
QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES’ QUALIFICATION, AS FOLLOWS:

- a) arithmetic mean of the marks obtained in the exams taken during the candidate’s degree courses (up to **5** points);
- b) a research project (max. 5000 characters, spaces included) in Italian or English. The project 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 (up to **3** points);
- c) other qualifications, publications (up to **2** points).

The qualifications must be submitted according with the procedure indicated in art. 5, para. 2 of this call for applications.

The minimum score to be called for interview is 7/10.

Candidates should include a brief summary of their Master thesis (max. 2000 characters, spaces included). The results of the qualifications assessment will be announced no later than **September 7, 2017**. The results will be posted on the Department of Earth and Environmental Sciences noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided during registration.



UNIVERSITA' DEGLI STUDI DI PAVIA

INTERVIEW: September 14, 2017, at 9:30 (Italian time), Room D2 - Department of Earth and Environmental Sciences, via Ferrata n. 9 - Pavia.

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 strongly 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 programmes and research topics are available at the following website: <http://phdsta.unipv.eu/site/en/home.html>.

The interview by videoconference, where required, will start at 15:00 (Italian time) of September 14, 2017. 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 scholarships funded by the Department of Earth and Environmental Sciences to undertake research in "Basin analysis and modeling of tectonic structures", "Advanced analytical techniques for hydrocarbon research", "Environmental impact and bioremediation" or "Elastic geobarometry" 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.

PHD COURSE IN DESIGN, MODELING, AND SIMULATION IN ENGINEERING

LOCATION: DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE

DIRECTOR: Prof. ALESSANDRO REALI

DURATION: 3 years

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

POSITIONS WITH SCHOLARSHIP	4	4 scholarships funded by the University of Pavia
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	5	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

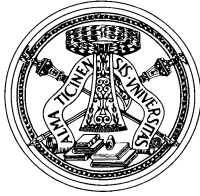
Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

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 Committee will draw up specific reports and a separate ranking list.

ADMISSION PROCEDURE: qualifications assessment and interview: candidates are allowed to take the



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interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, 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 called for interview is 7/10.

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The results of the qualifications assessment will be published online no later than **September 7, 2017**. The results will be posted on the Department of Civil Engineering and Architecture noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 19, 2017, at 10:00 (Italian time), 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.

The interview by videoconference, where required, will start at 12:00 (Italian time) of **September 19, 2017**. 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.eu/site/en/home/research/phd-courses/articolo11787.html>

The PhD course involves the following programmes:

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

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

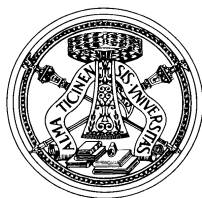
LOCATION: DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

DIRECTOR: Prof. PAOLO DI BARBA

DURATION: 3 years

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

The PhD course includes three programmes, among which an international programme in cooperation with Lodz University of Technology, Poland.



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POSITIONS WITH SCHOLARSHIP	10	6 scholarships funded by the University of Pavia; 1 scholarship funded by Spectra-Physics Rankweil to undertake research in “Investigation on new amplifiers for high-power femtosecond lasers”; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani) to undertake research in “Earth Observation big data analysis for environmental applications”; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani) to undertake research in “Identification and control of dynamic systems”; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e Giovani) to undertake research in “Solid-state lasers sources for LIDAR applications”.
POSITIONS WITHOUT SCHOLARSHIP	2	
TOTAL POSITIONS	12	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 2

Such positions are reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for these positions will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

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 Committee will draw up specific reports and a separate ranking list.

ADDITIONAL POSITIONS JOINTLY SUPERVISED WITH COMPANIES: 1 – R2M Solution S.r.l. – set in Pavia, via Fratelli Curzio 42 (Polo Tecnologico).

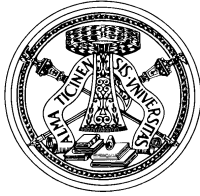
ADMISSION PROCEDURE: qualifications assessment and interview. Candidates are allowed to take the interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will confirm the receipt of such request.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES’ QUALIFICATION, AS FOLLOWS:

- exams taken during the candidate’s degree courses, bearing the marks (up to **6** points);
- publications (up to **1** point);



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c) *curriculum vitae* (up to **1** point);

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 July 14, 2017 at 17:00 pm (Italian time). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **2** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The minimum score to be called for interview is 7/10.

The results of the qualifications assessment will be published online no later than **September 13, 2017**.

The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 20, 2017, at 9:30, at the Engineering Faculty - Via Ferrata n. 5 – Pavia. Candidates are advised to refer to the Dean’s secretary to find out the class room where the exam will take place.

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of September 20, 2017. 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

The PhD course involves the following programmes:

- a. Photonics and Space Communications Systems;
- b. Computer Engineering and Automation;
- c. Electrical Engineering (in cooperation with Lodz University of Technology, Poland).

PLEASE NOTE: Candidates who are interested in the scholarship funded by Spectra-Physics Rankweil to undertake research in “Investigation on new amplifiers for high-power femtosecond lasers” or in the scholarships funded by the Department of Electrical, Computer and Biomedical Engineering to undertake research in “Earth Observation big data analysis for environmental applications”, “Identification and control of dynamic systems” or “Solid-state lasers sources for LIDAR applications” 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.

PHD COURSE IN MICROELECTRONICS

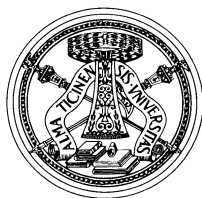
LOCATION: DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

DIRECTOR: Prof. GUIDO TORELLI

DURATION: 3 years

RESEARCH TOPICS: Study and design of integrated circuits

POSITIONS WITH SCHOLARSHIP	5	3 scholarships funded by the University of Pavia; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering (cofunded with Fondo Ricerca e
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		Giovani) 1 scholarship funded by Pietro Fiorentini S.p.A. to undertake research in “Energy harvesting for Gas and Oil applications”.
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	6	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

Candidates applying for this position 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.

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

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will confirm the receipt of such request.

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

QUALIFICATIONS ASSESSMENT: 20 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- a) exams taken during the candidate's degree courses, bearing the marks (up to **10** points);
- b) publications (up to **5** points);
- c) other qualifications (up to **5** points).

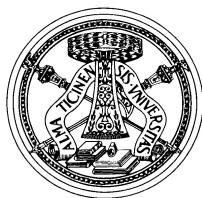
The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The results of the qualifications assessment will be published online no later than **September 22, 2017**. The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 26, 2017, at 10:00 (Italian time), at the Engineering Faculty - Via Ferrata n. 5 – Pavia. Candidates are advised to refer to the Dean's secretary to find out the class room where the exam will take place.

The interview by videoconference, where required, will start at 14:00 (Italian time) of September 26, 2017. 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/dottMICR/index.php>



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PLEASE NOTE: Candidates who are interested in the scholarships funded by Pietro Fiorentini S.p.A. to undertake research in “Energy harvesting for Gas and Oil applications” 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.

PHD COURSE **IN HEALTH TECHNOLOGIES, BIOENGINEERING AND BIOINFORMATICS**

LOCATION: DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING

DIRECTOR: Prof. RICCARDO BELLAZZI

DURATION: 3 years

RESEARCH TOPICS: Bioinformatics, Biomedical Informatics, Modeling of Biological Systems, Biomedical Technology, Computational Biomechanics, Biological tissue engineering, Biomaterials, Synthetic Biology.

POSITIONS WITH SCHOLARSHIP	5	3 scholarships funded by the University of Pavia; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering to undertake research in “Biomedical Informatics methods and technologies to support the project <i>Genomic Profiling of rare hematological malignancies, development of personalized medicine strategies and their implementation into Rete Ematologica Lombarda (REL) clinical network</i> ”; 1 scholarship funded by the Department of Electrical, Computer and Biomedical Engineering.
POSITIONS WITHOUT SCHOLARSHIP	2	
TOTAL POSITIONS	7	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

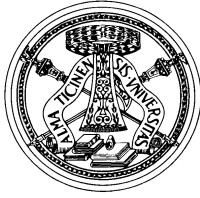
Candidates applying for the “Additional positions reserved to candidates with scholarship from a foreign country” will be selected through qualifications assessment and interview in person or via videoconference/webcam. The Committee will draw up specific reports and a separate ranking list.

ADMISSION PROCEDURE: qualifications assessment and interview: candidates are allowed to take the interview in English.

Candidates living abroad are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATIONS ASSESSMENT: 15 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES’ QUALIFICATION, AS FOLLOWS:



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- 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 **5** points);
- d) scientific publications (up to **2** points);
- e) *curriculum vitae* (up to **2** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The minimum score to be called for interview is 8/15.

The results of the qualifications assessment will be published online no later than **September 8, 2017**. The results will be posted on the Department of Electrical, Computer and Biomedical Engineering noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 25, 2017, at 9:00 (Italian time), “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.

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of September 25, 2017. 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 programmes:

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

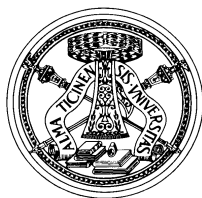
PLEASE NOTE: Candidates who intend to apply for the scholarship funded by the Department of Electrical, Computer and Biomedical Engineering to undertake research in “Biomedical Informatics methods and technologies to support the project *Genomic Profiling of rare hematological malignancies, development of personalized medicine strategies and their implementation into Rete Ematologica Lombarda (REL) clinical network*” 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 SCIENCES

PHD COURSE IN GENETICS, MOLECULAR AND CELLULAR BIOLOGY

LOCATION: “LAZZARO SPALLANZANI” DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY

DIRECTOR: Prof. ANTONIO TORRONI



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DURATION: 3 years

RESEARCH TOPICS: Genetics and genomics of human and animal populations. Study of hereditary disorders using molecular and bioinformatics approaches. The autophagy process in celiac disease. Genome instability mechanisms; identification and functional characterization of markers relevant for tumor development and progression. Molecular imaging with radiotracers in malignant glioma. Role of gut microbiome in the developing of colorectal cancer. Cross-talk between DNA and RNA metabolism in response to different stress stimuli, in cancer and neurodegeneration. Cytochemical and ultrastructural studies of the nuclear processes of transcript maturation and of the influence of epigenetic modifications. Molecular biology, cytogenetics, epigenomics for the study of mammalian centromeres and telomeres. Characterization of the molecular mechanisms that regulate energy balance in the cross-talk between the central nervous system and brown adipose tissue. Cellular and molecular studies of the effects induced by platinum compounds and metabolic diseases on the development of the central nervous system. Cellular and molecular mechanisms underlying gametes maturation and pluripotent cell differentiation. Cyto-histochemical studies of normal and pathological tissues and organs, and in experimental conditions. Fluorescence analysis as a tool for investigating biological processes. Structural biology of enzymes of medical relevance: monoamine oxidases and their role in oxidative stress processes in neurodegenerative and cardiovascular diseases. Gene cloning, functional characterization and molecular mechanisms of enzymes, antibodies and proteins, potential targets of pharmacological drugs. Synthesis of new antiviral drugs; determination of the mechanisms of activity and resistance to new antitubercular drugs; identification of new compounds with antiproliferative and/or pro-apoptotic activity. Correlation between the biological activity and action mechanisms of candidate molecules for the prevention and therapy of human diseases. Viral oncogenesis and the role of T-cell response in controlling the development of virus-associated tumors. Phenotypical and molecular characterization of antimicrobial resistance and virulence of successful pathogens, aimed to a better control of intra-hospital and environmental reservoirs. Genomics and bioinformatics for the study of interactions, from mutualistic symbiosis to pathogenic infections. Microbial biotechnologies for production of industrially-relevant molecules. Biotechnological and molecular approaches for the improvement of crop species. Functional and population genomics of harmful insects; studies on mosquito immunity and vector competence.

POSITIONS WITH SCHOLARSHIP	9	9 scholarships funded by the University of Pavia.
POSITIONS WITHOUT SCHOLARSHIPS	3	
TOTAL POSITIONS	12	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

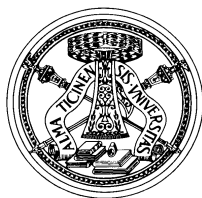
ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

Candidates applying for this position 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.

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.



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QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- 1) presentation letter (no more than one) 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. 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 July 14, 2017 (Italian time). Unlike the other qualifications, the reference letter must not be uploaded in the website during the online application procedure (up to **1** point);
- 2) 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);
- 3) arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **8** points).

The qualifications must be submitted according to the procedure described in art. 5, para. 2 of this call for applications.

WRITTEN TEST: September 4, 2017, at 9:30 (Italian time), Aula "Arturo Falaschi" of the CNR Institute of Molecular Genetics - Via Ferrata n. 1 – Pavia;

INTERVIEW: September 6, 2017, at 9:30 (Italian time), Aula "Arturo Falaschi" of the CNR Institute of Molecular Genetics - Via Ferrata n. 1 – Pavia.

INFORMATION: <http://phdsgb.unipv.eu/site/en/home.html> - see the "Admission procedures".

PHD COURSE IN EXPERIMENTAL MEDICINE

LOCATION: DEPARTMENT OF CLINICAL-SURGICAL, DIAGNOSTIC AND PEDIATRIC SCIENCES

DIRECTOR: Prof. PAOLO DIONIGI

DURATION: 3 years

RESEARCH TOPICS: general medicine, medical therapy, experimental surgery, microsurgery, anesthesiology, biomedical technologies.

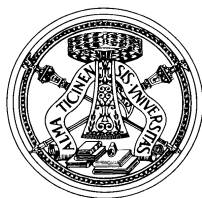
POSITIONS WITH SCHOLARSHIP	4	4 scholarships funded by the University of Pavia;
POSITIONS WITHOUT SCHOLARSHIP	2	
TOTAL POSITIONS	6	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

Candidates applying for this position 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.

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.



UNIVERSITA' DEGLI STUDI DI PAVIA

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, DIVIDED 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. 2 of this call for applications.

WRITTEN TEST: September 20, 2017, at 9:00 (Italian time), Aula 3 (1st floor) – DEA - “S. Matteo” General Hospital – Pavia.

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

INTERVIEW: September 21, 2017, at 9:00 (Italian time), Aula 3 (1st floor) – DEA - “S. Matteo” General Hospital – Pavia.

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

The PhD course involves the following programmes:

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

PHD COURSE IN PSYCHOLOGY, NEUROSCIENCE AND DATA SCIENCE

LOCATION: DEPARTMENT OF BRAIN AND BEHAVIORAL SCIENCES

DIRECTOR: Prof. GABRIELLA BOTTINI

DURATION: 3 years

RESEARCH TOPICS: Psychology, Neuroscience, Biostatistics, Public Health

POSITIONS WITH SCHOLARSHIP	5	5 scholarships funded by the University of Pavia
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	6	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

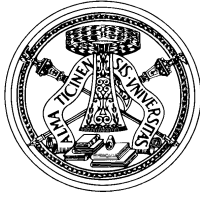
Candidates applying for this position will be selected through qualifications assessment and interview in person or via videoconference/webcam. The examining committee will draw up specific reports and a separate ranking list.

ADMISSION PROCEDURE: qualifications assessment and interview.

Candidates living abroad are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it is made by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:



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- 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. 2 of this call for applications.

The candidates will make sure to include their *curriculum vitae*.

The minimum score to be called for interview is 7/10.

The results of the qualifications assessment will be published online no later than **September 22, 2017**. 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 University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 26, 2017, starting from 10:00 (Italian time), Sala Riunioni, Department of Brain and Behavioral Sciences (Psychology section), Piazza Botta n. 11, Pavia.

The interview will be held in Italian or English and will verify the candidate's knowledge of English. The interview will consist of a short presentation of the research project meant to verify candidates' aptitude for the PhD course research topics, offering candidates the chance to develop it according with the disciplinary approach they prefer. Candidates' basic knowledge of the research methodology on their pertaining field will be assessed as well. The research project presented by the candidate will not, in any way, be binding if the candidate is admitted onto the PhD course.

The interview by videoconference, where required, will start at 14.00 pm (Italian time) of September 26, 2017. 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: gabriella.bottini@unipv.it

The PhD course involves the following programmes:

- 1) Psychology and Neuroscience;
- 2) Data Science in Biomedicine.

PHD COURSE IN BIOMEDICAL SCIENCES

LOCATION: DEPARTMENT OF BRAIN AND BEHAVIORAL SCIENCES

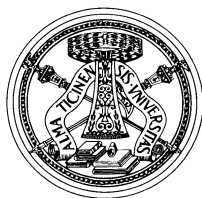
DIRECTOR: Prof. EGIDIO UGO D'ANGELO

DURATION: 3 years

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



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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 pharmacoeconomics 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; 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 cephalgia and adaptive disorders; neurodegenerative diseases, brain aging and dementia.

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.

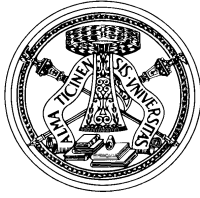
The PhD course in Biomedical Sciences is dedicated both to candidates graduated in scientific disciplines (for example biology, physics and engineering) with an interest in basic and applied research to disease, and to candidates graduated in Medicine who choose the postgraduate doctoral training with 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.

POSITIONS WITH SCHOLARSHIP	8	8 scholarships funded by the University of Pavia
POSITIONS WITHOUT SCHOLARSHIP	3	
TOTAL POSITIONS	11	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.



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ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE H2020-MSCA-ITN-2016 PROGRAMME “Training, Research and Raising of Public Awareness in Cell Biology and Pathology of Neuroglia (EU-PhD-GLIA)”: 1

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH SCHOLARSHIP FROM A FOREIGN COUNTRY: 2

ADDITIONAL POSITIONS WITHOUT SCHOLARSHIP RESERVED TO CANDIDATES GRADUATED ABROAD: 2

The “Additional positions without scholarship reserved to candidates graduated abroad” are reserved to candidates holding at least a second-level university degree attained abroad.

Candidates applying for the “Additional positions reserved to candidates with scholarship from a foreign country” and for the “Additional positions without scholarship reserved to candidates graduated abroad” will be selected through qualifications assessment and interview in person or via videoconference/webcam. The examining 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.

Candidates living abroad are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES’ QUALIFICATION, 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://phdsb.unipv.eu/site/en/home/admission-procedures.html> (up to 2 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

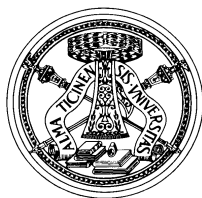
The minimum score to be called for interview is 7/10.

The results of the qualifications assessment will be published online no later than **September 11, 2017**. The results will be posted on the noticeboard of the Department of Brain and Behavioral Sciences and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 18, 2017 at 9:00 (Italian time) - 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.

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of **September 18, 2017**. 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.



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INFORMATION: <http://phdsb.unipv.eu/site/en/home/admission-procedures.html>

PHD COURSE IN TRANSLATIONAL MEDICINE

LOCATION: DEPARTMENT OF MOLECULAR MEDICINE

DIRECTOR: Prof. ENZA MARIA VALENTE

DURATION: 3 years

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. “**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.

POSITIONS WITH SCHOLARSHIP	7	6 scholarships funded by the University of Pavia; 1 scholarship funded by the Department of Molecular Medicine to undertake research in “Determinants of Ventricular Fibrillation during myocardial infarction”.
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	8	

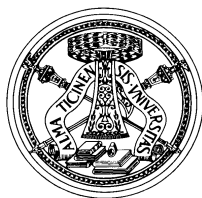
ADMISSION PROCEDURE: qualifications assessment and tests (written test and interview). Candidates are allowed to take the tests in English.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES’ QUALIFICATION, AS FOLLOWS:

- arithmetic mean of the marks obtained in the exams taken during the candidate’s degree courses (up to **5** points);
- curriculum vitae et studiorum (up to **3** points);
- a maximum of 2 reference letter 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 July 14, 2017 at 17:00 pm (Italian time). Unlike the other documents, these letters must not be uploaded by the candidate during the online application procedure (up to **1** point);
- 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).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.



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WRITTEN TEST: The written test will consist of an essay, in Italian or English, on one of the “basic research” and “clinical research” topics of the PhD course.

The written test will take place at one of the following locations, at the choice of the candidate:

- **University of Pavia: September 11, 2017, at 9.00**, Aula “Mosca” of the Department of Molecular Medicine – Biology and Genetics section – Via Forlanini n. 14/16, Pavia;
- **New York City (USA): September 11, 2017;**
- **Beijing (People's Republic of China): September 11, 2017.**

The exact place and time of the written tests in New York City and Beijing will be posted before July 31, 2017 at the following link: <http://molecularmedicine.unipv.it/phd-programme/information>

During the application procedure, candidates will be asked to indicate the location in which they wish to take the written test. Such choice can't be modified after the deadline for applications (July 14, 2017 at 17:00 pm, Italian time).

INTERVIEW: September 20, 2017, at 10:00 (Italian time), Room “A” of the Department of Molecular Medicine – Human Physiology section – Via Forlanini n. 6, Pavia.

The interview will be held in English and will concern one of the research topics of the PhD course.

Candidates are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of **September 20, 2017**. 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 intend to apply for the scholarship funded by the Department of Molecular Medicine to undertake research in “Determinants of Ventricular Fibrillation during myocardial infarction” 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

PHD COURSE

IN PRIVATE LAW, ROMAN LAW AND EUROPEAN LEGAL CULTURE

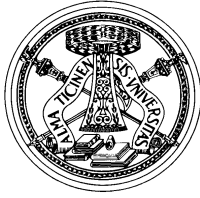
LOCATION: DEPARTMENT OF LAW

DIRECTOR: Prof. VALERIO MAROTTA

DURATION: 3 years

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

POSITIONS WITH SCHOLARSHIP	5	5 scholarships funded by the University of Pavia
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UNIVERSITA' DEGLI STUDI DI PAVIA

POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	6	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

Candidates applying for this position 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.

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 be focused on one of the following topics: Civil Law; Labour Law and Employment Relations; Intellectual Property and Unfair Competition; Roman Law; Legal History.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

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

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

WRITTEN TEST: September 20, 2017 at 10:00 (Italian time), Department of Law – C.so Strada Nuova n. 65, Pavia.

For the topics concerning the programme 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 21, 2017 at 11:00 am (Italian time), Department of Law – C.so Strada Nuova n. 65, Pavia.

INFORMATION: please contact the PhD Director at valerio.marotta@unipv.it

The PhD course involves the following programmes:

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

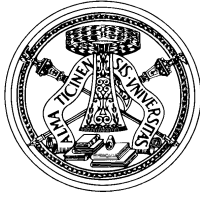
PHD COURSE **IN PUBLIC LAW, CRIMINAL AND INTERNATIONAL JUSTICE**

LOCATION: DEPARTMENT OF LAW

DIRECTOR: Prof. CRISTINA CAMPIGLIO

DURATION: 3 years

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.



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POSITIONS WITH SCHOLARSHIP	4	4 scholarships funded by the University of Pavia
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	5	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE “MOBILITY CONFAP ITALY” PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 2

Candidates applying for this position 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.

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

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: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to 6 points);
- scientific publications (up to 4 points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

WRITTEN TEST: September 18, 2017 at 9:30 am (Italian time), at the Department of Law – Aula I - Corso 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 20, 2017 at 9:30 am (Italian time), at the Department of Law – Aula III - Corso Strada Nuova n. 65, Pavia.

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

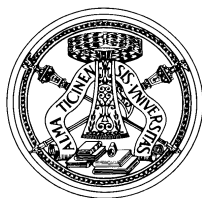
The PhD course involves the following programmes:

- Public law;
- Criminal and international justice.

PHD COURSE **IN ECONOMICS**

LOCATION: DEPARTMENT OF ECONOMICS AND MANAGEMENT

DIRECTOR: Prof. ALESSANDRO MISSALE – University of Milano



UNIVERSITA' DEGLI STUDI DI PAVIA

COOPERATING 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.

DURATION: 3 years

RESEARCH TOPICS:

Carried out at the University of Pavia:

Microeconomic Theory of Demand Systems; Models of Monopolistic Competition; 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.

Carried out at the University of Milano:

Philosophy and Methodology of Economics; Risk and Time Preferences; Social Preferences; Group Cooperation and Coordination; Experimental Economics; General Equilibrium Theory; 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; Trade Policy; 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; Climate Change Mitigation and Adaptation Policies; Trade-Related Environmental Regulations; Agricultural and Food Policies; Statistical Methods for Finance; Quantitative Finance.

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

POSITIONS WITH SCHOLARSHIP	6	3 scholarships funded by the University of Pavia; 3 scholarships funded by the University of Milano
POSITIONS WITHOUT SCHOLARSHIP	0	
TOTAL POSITIONS	6	

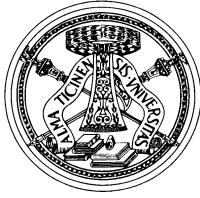
ADMISSION PROCEDURE: qualifications assessment and interview: candidates will have to take the interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it is made by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

QUALIFICATIONS ASSESSMENT: 15 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, 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);



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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 July 14, 2017 at 17:00 pm (Italian time). Unlike the other qualifications, these letters 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).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The minimum score to be called for interview is 10/15.

The results of the qualifications assessment will be published online no later than **September 1, 2017**. The results will be posted on the Department of Economics and Management noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 6, 2017, at 9:00 am (Italian time), at the Department of Economics and Management, via San Felice n. 5, Pavia.

The interview will take place in English. It 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.

The interview by videoconference, if required, will start at 14.00 pm (Italian time) of **September 6, 2017**. 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/>

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 € 13638.47.

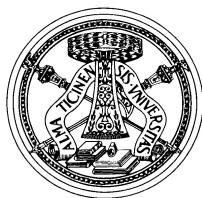
Each scholarship funded by the University of Milano has a gross annual amount of € 16350.00.

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 three 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.



UNIVERSITA' DEGLI STUDI DI PAVIA

PHD COURSE IN SCIENCES OF THE LITERARY AND MUSICAL TEXT

LOCATION: DEPARTMENT OF HUMANITIES

DIRECTOR: Prof. CARLA RICCARDI

DURATION: 3 years

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.

POSITIONS WITH SCHOLARSHIP	5	5 scholarships funded by the University of Pavia
POSITIONS WITHOUT SCHOLARSHIP	1	
TOTAL POSITIONS	6	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

Candidates applying for this position will be selected through qualifications assessment and interview in person or via videoconference/webcam. The Committee will draw up a specific report and a separate ranking list.

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

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

RESEARCH PROJECT: candidates must submit a research project either in Italian or in English (max. 3000 words, bibliography not counted), related to research topics pertaining to the programmes 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.

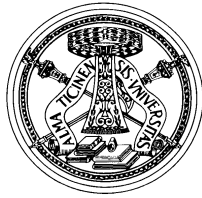
QUALIFICATIONS ASSESSMENT: 4 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- synthesis of the second-level degree thesis in Italian or English (max. 1000 words) (up to **2** points);
- curriculum vitae*, including possible list of scientific publications. The publications must be submitted in digital format (abstract or summaries) (up to **2** points).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

WRITTEN TEST: September 13, 2017, at 9:00 (Italian time), Aula Caminetto, Palazzo San Tommaso, Piazza del Lino n. 2, Pavia.

The written test will consist of:



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1. for the Modern Philology programme: discussion of philological-critical issues referred to crucial texts of Italian literature *or* stylistic analysis (linguistic, syntactic, metrical) of a poetic text;
2. for the Foreign Languages and Literatures programme: discussion in the chosen language of either philological-literary or linguistic issues pertaining to authors, texts, textual genres, specific periods of the language and culture, *or* historical-literary/stylistic/linguistic analysis with commentary on a text;
3. for the Musicology programme: historical, analytical and stylistic discussion of at least two musical pieces chosen among three different periods and repertoires proposed by the Committee, including those relevant to ethnomusicology, popular music and media studies.

The list of candidates admitted to the interview will be published according to a procedure that will be communicated the day of the written test.

INTERVIEW: September 18, 2017, at 9:00 (Italian time), Department of Humanities, Literature Section – Corso Strada Nuova n. 65, Pavia.

The oral test 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 programme;
- 3) the assessment of the knowledge of one of the following languages: English, French, German, Spanish, Russian.

INFORMATION: please contact the PhD Director at carla.riccardi@unipv.it

The PhD course involves the following programmes:

MODERN PHILOLOGY

Research areas:

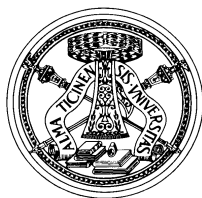
1. Genetic criticism and textual tradition; critical editions of texts from the origins to the 20th century;
2. History of literary criticism;
3. Theory of literature;
4. Renaissance and Modern literature and culture.
5. Italian linguistics;
6. Edition and comment of early Romance texts;
7. Theatre texts and spaces. Film language: analysis and criticism;
8. Metrical theory and analysis;
9. Textual traditions of Greek and Latin texts;
10. Reception of Greek and Latin texts.

MODERN FOREIGN LANGUAGES AND LITERATURES

Research areas:

The programme 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 and American novel;
4. Textual analysis and criticism (theory and practice);
5. Literary translation;
6. History of the language;
7. Film studies (transcriptions/re-writings, screen-adaptations of literary texts, cinema language and subtitles);
8. History of theatre and drama (script and performance).



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MUSICOLOGY

Research areas:

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

PHD COURSE IN LANGUAGE SCIENCES

LOCATION: DEPARTMENT OF HUMANITIES

DIRECTOR: Prof. SONIA CRISTOFARO

COOPERATING UNIVERSITY: 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.

DURATION: 3 years

RESEARCH TOPICS: Language typology, historical linguistics, Indo-European linguistics, sociolinguistics, theoretical linguistics, applied linguistics, second language teaching, linguistics of modern languages, European philologies.

POSITIONS WITH SCHOLARSHIP	6	3 scholarships funded by the University of Pavia; 3 scholarships funded by the University of Bergamo
POSITIONS WITHOUT SCHOLARSHIP	0	
TOTAL POSITIONS	6	

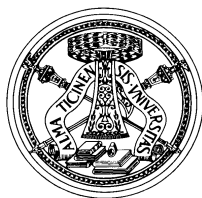
ADMISSION PROCEDURE: qualifications assessment and interview. Candidates are allowed to take the interview in English.

Candidates living abroad and, if they have a justifiable need, subject to the approval of the examining committee, candidates living in Italy are allowed to take a web-based interview via videoconference, provided a written e-mail request is made to concorso-dottorati@unipv.it is made by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

LINGUISTIC KNOWLEDGE: candidates are required to know English and one additional language, which can be French, Russian, Spanish or German. The candidate's knowledge of these languages will be assessed during the interview.

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

- a) motivation letter in Italian or English (max 500 words) (up to 2 points);
- b) a research project either in Italian or in English (max. 3000 words, bibliography not counted), related to research topics pertaining to the following research topics: Language typology, historical linguistics, Indo-European linguistics, sociolinguistics, theoretical linguistics, applied linguistics, second language teaching,



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linguistics of modern languages, European philologies. The project should contain a general introduction about the state of the art on the topic; a presentation of the research objectives, a description of the methods and the sources the candidate intends to use, and a discussion of the expected results (up to **5** points);

c) arithmetic mean of the marks obtained in the exams taken during the candidate's degree courses (up to **2** points);

d) Publications. Only publications from the last 5 years and relevant to the research topics of the PhD course will be considered (up to **1** point).

The qualifications must be submitted according to the procedure indicated in art. 5, para. 2 of this call for applications.

The minimum score to be called for interview is 7/10.

The results of the qualifications assessment will be published online no later than **September 21, 2017**.

The results will be posted on the Department of Humanities noticeboard and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 25, 2017, at 10:00 (Italian time), at the Aula Riunioni, Department of Humanities, Theoretical and Applied Linguistics section, C.so Carlo Alberto n. 65, Pavia.

The interview will deal with the research project and aims to assess the candidate's aptitude towards research. The research project will not be binding if the candidate is admitted onto the PhD course.

The interview by videoconference, where required, will start at 10:00 pm (Italian time) of **September 25, 2017**. 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://studiumanistici.unipv.it/?pagina=p&titolo=ScienzeLinguistiche>

The PhD course involves the following programmes:

- a. General linguistics, language typology, historical linguistics, European philologies
- b. Applied linguistics, computational linguistics, linguistics of modern languages
- c. Sociolinguistics and pragmatics

PHD COURSE IN HISTORY

LOCATION: DEPARTMENT OF POLITICAL AND SOCIAL SCIENCES

DIRECTOR: Prof. PIERLUIGI VALSECCHI

DURATION: 3 years

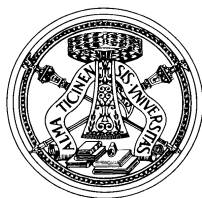
RESEARCH TOPICS:

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.

For further information on the research topics please visit the PhD course website:

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

POSITIONS WITH SCHOLARSHIP	5	5 scholarships funded by the University of Pavia
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POSITIONS WITHOUT SCHOLARSHIP	0	
TOTAL POSITIONS	5	

ADDITIONAL POSITIONS RESERVED TO CANDIDATES HOLDING A SCHOLARSHIP FROM THE "MOBILITY CONFAP ITALY" PROGRAMME: 1

Such position is reserved to candidates who have already been selected by the University of Pavia and granted a CONFAP scholarship for the attendance of the PhD course.

Candidates applying for this position will be selected through qualifications assessment only. The committee will draw up a specific report and a separate ranking list.

ADDITIONAL POSITIONS RESERVED TO CANDIDATES WITH A SCHOLARSHIP FROM A FOREIGN COUNTRY: 1

ADDITIONAL POSITIONS WITH SCHOLARSHIP RESERVED TO CANDIDATES GRADUATED ABROAD: 1

Candidates who wish to apply for the "Additional position with scholarship reserved to candidates graduated abroad" must hold both a first-level and a second-level degree attained abroad.

Candidates applying for the "Additional positions reserved to candidates with a scholarship from a foreign country" and for the "Additional positions with scholarship reserved to candidates graduated abroad" will be selected through qualifications assessment and interview in person or via videoconference/webcam. 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.

Candidates living abroad are allowed to take a web-based interview via videoconference, provided a written e-mail request to concorso-dottorati@unipv.it is made by the deadline of July 14, 2017 at 17:00 pm (Italian time). The PhD office will acknowledge receipt of the e-mail.

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

QUALIFICATIONS ASSESSMENT: 10 POINTS ARE ASSIGNED TO THE ASSESSMENT OF CANDIDATES' QUALIFICATION, AS FOLLOWS:

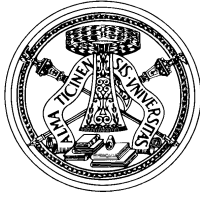
- exams taken during the candidate's degree courses, including the marks (up to **2** points). The certificate/self-declaration submitted by the candidate must bear the arithmetic mean of the marks obtained in the exams.
- post lauream diplomas (specialization schools, italian Master courses), participation in archaeological excavation campaigns (up to **1** point);
- certified publications and conference papers dealing with the subjects of the PhD course (up to **2** points);
- 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 topics. 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. 2 of this call for applications.

The minimum score to be called for interview is 6/10.

The results of the qualifications assessment will be announced no later than **September 19, 2017.**



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The results will be posted on the Department of Humanities and in the Department of Political and Social Sciences noticeboards, and in the Personal Area of the University website. This can be accessed using the login information provided at the end of the registration procedure.

INTERVIEW: September 21, 2017, at 10:00 am (Italian time), Department of Political and Social Sciences, C.so Strada Nuova n. 65, Pavia.

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.

The interview by videoconference, where required, will start at 14:00 pm (Italian time) of **September 21, 2017**. 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: pierluigi.valsecchi@unipv.it, clelia.mora@unipv.it