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**Please note: The English version of the Call has been prepared exclusively to facilitate the access of foreign candidates**

**Public call for applications for the competitive selection procedure for admission to the 38 th Cycle Ph.D. Research Course with administrative seat at the Università del Salento (University of Salento)**

academic year 2022 2023

(the official Call is approved by Rector's decree n. 643/2022)

- “Diritti e Sostenibilità” / Law and Sustainability (see attachment A);
- “Filosofia: Forme e Storia dei Saperi Filosofici” / Philosophy: Forms and History of Philosophical Knowledge / Philosophie: Formes et histoire des savoirs philosophiques / Philosophie: Formen und Geschichte des philosophischen Wissens” (International doctorate in agreement with Université Paris Sorbonne and Universität zu Köln) (see attachment B);
- “Fisica e Nanoscienze” / Physics and Nanosciences (see attachment C);
- “Human and Social Sciences” / Human and Social Sciences (see attachment D);
- “Ingegneria dei Materiali e delle Strutture e Nanotecnologie” / Material, Structure and Nanotechnology engineering (see attachment E);
- “Ingegneria dei Sistemi complessi” / Engineering of complex systems (see attachment F);
- “Lingue, Letterature, Culture e loro applicazioni” / Languages, Literatures and Cultures and their applications (see attachment G);
- “Matematica e Informatica” / Mathematics and IT (in agreement with Università della Basilicata) (see attachment H);
- “Nanotecnologie” / Nanotechnology (see attachment I);
- “Regulation, Management and Law of Public Sector Organizations” (Pdh Research Course for public administration. with administrative seat at the University of Salento, organized in agreement with the following universities: Parthenope di Napoli, Sapienza di Roma, Brescia, Foggia, Ferrara, Molise, Cà Foscari di Venezia (see attachment L);
- “Scienze del Patrimonio Culturale” / Sciences for Cultural Heritage (see attachment M);
- “Scienze e Tecnologie Biologiche ed Ambientali” / Biological and environmental sciences and technologies (see attachment N);
- “Transizione Digitale e Sostenibilità: le imprese e le Amministrazioni pubbliche nell'economia globalizzata” / Digital Transformation and Sustainability. Firms and public Administrations in the global Economy (see attachment O).



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## Article 1) Implementation

The call for application for the selection procedure for admission to the three-year Doctoral (Ph.D.) Research Course, accredited by the Italian Ministry of Education, Universities and Research (MIUR) with the approval of Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR) with administrative seat at the University of Salento is now open.

The detailed description of each Course (the PhD course description) is attached to this call for applications (to A from O) and is to be considered a part of it. The curricula for the three-year Ph.D. research Courses to be included in the call for applications are the following:

- Diritti e Sostenibilità ( Law and Sustainability, see attachment A);
- Filosofia: Forme e Storia dei saperi filosofici (Philosophy: Forms and History of Philosophical Knowledge, see attachment B);
- Fisica e Nanoscienze (Physics and Nanosciences, see attachment C);
- Human and Social Sciences (see attachment D);
- Ingegneria dei Materiali e delle Strutture e Nanotecnologie ( Material, Structure and Nanotechnology engineering, see attachment E);
- Ingegneria dei Sistemi complessi (Engineering of complex systems, see attachment F);
- Lingue, Letterature, Culture e loro applicazioni ((Languages, Literatures and Cultures and their applications, see attachment G)
- Matematica e Informatica (Mathematics and IT, see attachment H);
- Nanotecnologie (Nanotechnology, see attachment I);
- "Regulation, Management and Law of Public Sector Organizations" (Pdh Research Course for public administration. with administrative seat at the University of Salento, organized in agreement with the following universities: Parthenope di Napoli, Sapienza di Roma, Brescia, Foggia, Ferrara, Molise, Cà Foscari di Venezia see attachment L)
- Scienze del Patrimonio Culturale ( Sciences for Cultural Heritage, see attachment M);
- Scienze e Tecnologie Biologiche ed Ambientali (Biological and environmental sciences and technologies, see attachment N);
- Digital Transformation and Sustainability. Firms and public Administrations in the global Economy" (see attachment O).

The procedure for admission to the call for the national PhD course in "Regulation, Management and Law of Public Sector Organizations" and the procedures for carrying out the selective tests present some limited specialty characteristics (contained, in particular, in Article 10 of this Call) with respect to the general rules valid for the other calls, due to the fact that this PhD course is governed by a specific operating regulation approved by the administrative office with the other partner universities.

In accordance with the provisions of MIUR decree 226/2021, only doctoral courses will be activated that have obtained from the Ministry, in accordance with



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ANVUR's opinion, accreditation (or confirmation of accreditation) following the outcome of the procedures that are still in progress.

If one of the established courses does not obtain accreditation, it will be deactivated and therefore the admission exams will not be carried out.

The cards of the PhD courses contain an overall indication of the places and scholarships announced, including:

- scholarships financed with resources from the PNRR, Mission 4, Component 1, assigned by the MUR with the Ministerial Decree n. 351/2022, with which it is intended to support the promotion and strengthening of the training and post-graduate doctoral level specialization which are divided into:

- **Investment 3.4.** *"Didactics and advanced university skills"* which aims to qualify university and doctoral courses through strategic objectives: digitization, culture of innovation and internationalization;

- **Investment 4.1.** *"Extension of the number of research doctorates and innovative doctorates for public administration and cultural heritage"* which aims to increase the reserve of human capital engaged in research-oriented activities, in public administrations and in cultural heritage.

- scholarships financed with resources under the PNRR, Mission 4, Component 2 "From research to business", Investment 3.3., assigned by the MUR with the Ministerial Decree n. 352/2022 and co-financed by companies, with which it is intended to enhance high-profile skills, especially in the areas of Key Enabling Technologies, through the establishment of dedicated doctoral programs, with the contribution and involvement of companies.

Scholarships related to DD.MM. 351 and 352 require the winner Applicants, under penalty of revocation of the same, to carry out the innovative doctoral paths provided for by the aforementioned Ministerial Decree, including the mandatory periods, where provided for by the related Investment, to be carried out abroad as well as in companies, research centers or Public administrations.

The winner Applicants of these specific thematic scholarships are therefore required to comply with all the conditions required by the MUR in the aforementioned DD.MM. 351 and 352 and in the Unilateral Act of obligation signed by the University of Salento and for grants financed under the Ministerial Decree n. 352/2022 (co-financed by companies) require compliance with the rules established in the agreements stipulated with companies.

The University of Salento will proceed with the revocation of the scholarships, even possibly in progress in the event that, for whatever reason, the ministerial funding granted should cease.

**On September 7, 2022** the following information will be announced on the page <https://www.unisalento.it/didattica/dottorati>:

- date of publication of the list of those admitted to the interview;
- the date on which the interview will be held.

## Article 2) Admission Requirements



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Admission to the competitive selection procedure to one (or more) of the Ph.D. research Courses listed in article 1 is open to all the citizens, without age or citizenship limitations, who enjoy civil and political rights in their state of residence or origin and who, within the expiry date of this public call for applications, as specified in the following paragraph, hold a degree awarded in accordance with Italian Law n. 341/90, a specialist degree obtained in accordance with DM (ministerial decree) n. 509/99 or a master's degree awarded in accordance with DM (ministerial decree) no. 270/04, or a similar and suitable academic qualification obtained abroad.

The detailed notes for each Ph.D. research course (Ph.D. research course descriptions), in attachment to this call for applications (Attachments A-O) contain specific information relative to each course and indication of the specific types of **degree required for admission to the competitive selection procedure.**

Provided that they make an application by the deadline specified in article 3 below, eligible Applicants also include, **those who will be awarded one of the aforementioned degrees by the deadline of enrollment in the PhD course, pursuant to the provisions of art. 8, paragraph 1, of the D.M. n. 226/2021.**

Once they have got their degrees, Applicants must immediately submit by email all the required information (name of institution which awarded the degree, date of issue, type of degree, final mark) either by means of self-certification or by means of a substitute declaration as specified by DPR (presidential decree) no. 445/00 (in the case of EU Applicants) or a certificate (for Applicants from outside the EU) accompanied by a copy of a valid identity document to the following address [amministrazione.centrale@cert-unile.it](mailto:amministrazione.centrale@cert-unile.it) and in cc [master.dottorati@unisalento.it](mailto:master.dottorati@unisalento.it)

Applicants who expect to get their degree by the mentioned date will be admitted conditionally to the competitive selection procedure.

Applicants, even if winners of the selection, will forfeit the possibility of enrolling in the Course if they do not achieve the qualification required for access without delay within and no later than the deadline for enrollment in the course.

The deadline for enrollment in the PhD course is set by art. 15, first paragraph, of the Regulations for Doctoral Programs of the University of Salento, in:

- **15 days from the date of publication** in the online register of the Rector's decree approving the acts  
or in

- **5 days from the date of publication** of the scrolling decree in the case of this second hypothesis.

For the places announced and reserved for employees of affiliated public bodies, those positions must be employees of the same Body on the date of submission of the application to participate in the selection.

Detailed information on the individual Ph.D. research courses (Ph.D. research course descriptions) included in the appendix to this public call for applications (attachments A-O)



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– specifies the positions on the courses Applicants may compete for, the grants and scholarships available, and, where foreseen, any positions reserved for specific research themes, financed with grants / scholarships funded under certain Courses / projects or under agreements with external bodies which foresee mandatory research on a precise theme which has already been specified in the attached Ph.D. research course descriptions and the positions reserved for employees of certain entities / companies or academic staff at the Al Akhawayn University of Morocco.

Positions on Courses with grants/scholarships subject to a specific research theme, for the purposes of this call for applications, are those positions, specified in the Ph.D. research course descriptions, which, by their particular nature, cannot be assigned purely and simply on the basis of assessment of the Applicant in the general competitive selection procedure but require further specific assessment beyond that of the general assessment.

An Applicant who wishes to apply to more than one course must submit different online applications to participate in each separate competitive selection procedure.

In addition to applying for positions on Courses with general themes, Applicants can participate in the competitive selection procedure for positions on Courses with grants/scholarships subject to maximum 2 specific research themes from among those published for each Ph.D. research course.

This choice must be clearly indicated in the online application by specifying the type of grant /scholarship for the specific chosen research area together with the general field of study.

**The Applicant who presents an application for a position with a grant/scholarship subject to a specific research theme (i.e. for a position with an apprenticeship contract), expresses his / her preference for the assignment of the specific position (positions) with grant/scholarship (grants/scholarships).**

**The choice made by the Applicant is binding and irrevocable and entails the obligation on the part of the same Applicant, in the event that he / she is the Winning Applicant, to accept the position with a scholarship subject to a specific research theme.**

**In the event that the candidate is the winner of two specific research - themed scholarships at the same time, they must proceed, no later than 5 days from the date of publication of the decree in the online register, to exercise their choice for one of the two positions.**

Applicants who do not apply for positions on a Course with a grant/scholarship subject to a specific research theme take part exclusively in the competitive selection procedure for general research positions (with or without a grant/scholarship).

Candidates wishing to participate in the competition for the assignment of places with a restricted topic scholarship must submit a research project in line with one of the selected thematic scholarships and will then be required to carry out the thematic research in case of assignment of the scholarship and to comply with the provisions of the agreements signed with the external financing bodies, accepting the provisions and obligations possibly provided for in the same agreements.



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Aptitude or experience regarding the research theme chosen must be declared when submitting the application for participation in the competitive selection procedure and will be evaluated by the Admissions Board during an interview.

The course descriptions of the PhD Research courses attached to the Public call for applications provide places reserved exclusively for lecturers of the Al Akhawayn University in Ifrane (Morocco).

The lecturers who will participate in the selection for the reserved place for the University of Al Akhawayn and the employees who will participate in the reserved place under the agreement with ASL-Lecce will participate exclusively for the reserved ranking that concerns them (and not for the general thematic ranking). In the absence of the requisite required (being lecturers or employees of the reference institution) the candidates will be excluded and such positions will not be assigned in the absence of suitable candidates.

### Art. 3 – Application Procedure

Applications for the competitive selection procedure must be made **within and not after 13:00 (Italian time) on 6 September 2022.**

The application shall be made, under penalty of exclusion, exclusively online, by following the appropriate procedure made available at: <https://studenti.unisalento.it>

To access the procedure, you must:

- a) Log on to the said website <https://studenti.unisalento.it> and **select, in the top right corner, in the MENU tab, your chosen language (Italian or English)**
- b) If the Applicant has not already registered, complete the registration process, clicking on “REGISTRAZIONE” in the “AREA RISERVATA”, or access using your credentials;
- c) The applicant who has already registered on Esse3 can directly access the above mentioned website (accessing from "Authentication procedure - LOGIN") and log in with the credentials he/she already have. On the other hand, foreign applicants will be able to access the website <https://studenti.unisalento.it> through "Registration for foreign candidates"/“Registrazione per candidati stranieri” without having to activate the SPID. All other applicants must activate SPID level 2. The information needed to activate SPID can be found at <https://www.spid.gov.it/richiedi-spid>;
- d) Go to the portal (authentication - LOGIN) on the banner “Accedi al Portale degli studenti” and click on “REGISTRAR’S OFFICE/ADMISSION TEST/ISCRIZIONE CONCORSI/DOTTORATO DI RICERCA”.  
Choose the Doctorate Course on which you intend to apply and, after carefully reading this call for application and its attachments, complete the on-line application form, entering all the required data. The procedure



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described in this paragraph **is obligatory in order to** be admitted to the competitive selection procedure.

- e) Complete the online application form and attach all required documents in pdf, jpeg or tiff formats.

The online procedure for the submission of the application for participation in the competitive selection procedure **will be available at <https://studenti.unisalento.it> starting from 12:00 (italian time) on 22 July 2022.**

There is no contribution to participate in the competition.

### **ITALIAN TAX CODE (CODICE FISCALE) FOR FOREIGN APPLICANTS**

N.B. For first time users, the system will require mandatory indication of their Italian tax code (codice fiscale).

International students who do not have an Italian tax code will be directed to the following link: [www.codicefiscale.com](http://www.codicefiscale.com) where he or she can obtain one, simply by inserting the name of the country or state in which he or she was born (e.g. someone who was born in Paris should simply put "France").

### **APPLICATION PROCESS**

Applicants are kindly requested to rigorously follow in detail all the following instructions:

- **The files required by the electronic procedure must be attached in pdf, jpg and tiff formats.**

These files must be inserted in the relevant section of the online procedure and must be named in the following manner:

- identity card: CI\_Applicant's name (eg. CI\_JACKSON)
- curriculum vitae: CV\_Applicant's surname (e.g. CV\_JACKSON)
- self-certification of exams: ESAMI\_Applicant's surname (e.g. ESAMI\_JACKSON)
- other qualifications: TITOLO\_1\_Applicant's surname; TITOLO\_2\_Applicant's surname; TITOLO\_3\_Applicant's surname; etc;
- research project: **PROGETTO PHD in Applicant's surname;**
- account MICROSOFT TEAMS for REMOTE interview for those Courses that take place entirely remotely or for candidates who have the requisites for the Courses for which the interview is foreseen): account\_TEAMS\_Applicant's surname;
- co-tutor (only for the Ph.D. research course in "Filosofia: Forme e Storia dei saperi filosofici" for which one is expressly required): cotutor\_Applicant's surname (e.g. COTUTOR\_JACKSON);



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- curriculum and lines of research (only for the Ph.D. research course in “Human and Social Sciences”)
- letter of presentation (for the doctoral course in "Physics and Nanosciences": letter\_presentation\_ Applicant's surname;

It is recommended not to exceed the overall 25 characters in the file name to avoid problems when downloading them from the Esse3 platform.

In the section related to the insertion of TITLES under "TYPOLOGY", the system asks to choose from a drop-down menu among various items (e.g. C.V., CARTA DI IDENTITÀ/IDENTITY CARD, Progetto di ricerca/Research Project, Autocert. Esami/Self-certification of exams, Altri titoli/Other qualifications, interview remotely by TEAMS etc.).

For each **TYPOLGY OF TITLE** entered, the applicant must fill in the **TITLE** section.

The applicant must include the following information in that section:

- for the TITLE related to the “CARTA DI IDENTITÀ/IDENTITY CARD” it will be necessary to insert "**CI surname applicant**" (eg. CI\_JACKSON);
- for the TITLE related to the C.V. it will be necessary to insert "**CV surname applicant**" (e.g. ESAMI\_JACKSON);
- for the TITLE related to the “Progetto di ricerca/Research Project” it will be necessary to insert "**Research Project surname applicant**" (e.g. Research Project\_JACKSON);
- for the TITLE related to the “Autocertificazione Esami/Self Certification Exams” it will be necessary to insert "**Exams surname applicant**";
- for the TITLE related to the “Autocertificazione Esami/Self Certification Exams” it will be necessary to insert "**title 1 surname applicant**", "**title 2 surname applicant**", etc.
- for the TITLE related to the co-tutor (for the courses that provide it) it will be necessary to insert "**co-tutor surname applicant**".

Compliance with the above instructions will allow the Admissions Board to review the uploaded documents swiftly. It will also reduce the risk of dispersion of IT documents with objects that are too long during the transfer of data from the online platform.

The University of Salento declines any responsibility in those cases in which the Applicant proceeds to the transmission of the documents without following the instructions above in the naming of the attached files.

## COMPLETING THE ONLINE REGISTRATION PROCEDURE

The online registration procedure terminates with the printing out from the student portal of the receipt of the application for admission to the complete selection procedure.

Once the Applicant has printed out the “admission test application”, upon completion of the online procedure, he or she can consider that his or her



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application to participate in the competitive selection procedure has been correctly completed.

With the online submission of the application the Applicant:

- assumes personal responsibility, pursuant to article 46 and 47 of DPR (presidential decree) 445/2000, regarding the declarations he or she has made and the files attached to the online application, in full awareness of the criminal penalties deriving from false statements and / or false declarations;
- examines the methods of processing of his or her personal data.

**N.B. Applicants are invited to submit their application to participate in the competitive selection procedure well in advance of the date (and time) of the deadline for submission of the application to avoid problems of various kinds that could jeopardize the successful outcome of the application transmission procedure.**

Indeed, near the expiry time, because of overload due to the high number of users who are completing the online procedure, the system may be subject to slowing down.

**It is possible to apply for more than one Ph.D. research course;** in which case, the Applicant will have to complete more than one online application for each competitive selection procedure for which he / she intends to participate.

Each candidate may submit **only one research project** for each PhD course for which he / she is applying.

If the Applicant foresees that they will obtain a qualification **by the deadline for registering for the course**, he / she must expressly indicate this fact in the application by filling in the section regarding qualifications for admission with the insertion of the “titolo in ipotesi” (“hypothetical qualification”). In such a case, the Applicant will be admitted to the competitive selection procedure “con riserva” (conditionally).

In order to be constantly updated on news regarding this call for applications, the Applicant can subscribe to the RSS feed associated with the web page of the competitive selection procedure, by clicking on the icon labelled “Sottoscrivi Rss” (“Subscribe to RSS feed”) on the page of the call for applications on the University of Salento website and adding it to his or her own RSS reader.

#### **Article 4) Documents to be submitted**

Together with the application for participation in the competitive selection procedure, completed online, the Applicant should attach the files containing:

1. a valid identity document;
2. a curriculum vitae containing, among other things, reference to a telephone number and an email address that may be used for all subsequent official communications related to the competitive selection procedure;
3. information relating to the Applicant's completed studies (self-certification or photocopy of a transcript of records indicating the exams taken and the marks obtained on the occasion of the attainment of a three-year, specialist, or Master's degree or a degree of the Vecchio Ordinamento -- an Italian degree of the format before the Bologna Process reforms) , with the indication of the **relative**



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average of marks and of the total duration of the Ph.D. research course in question; students who have not yet completed their degree will be assessed on the basis of the average marks obtained in the exams up to the moment of submission of the application for participation in the competitive selection process;

4. documentation certifying that the Applicant meets the qualifications / experience / activities indicated by the individual Ph.D. research course descriptions attached to this call for applications, which the Applicant possesses and desires to be evaluated by the Admissions Board;

5. your research project (which must be presented together with the application for participation in the competitive selection procedure for all the PhD research courses). These candidates will be evaluated, as far as the first test is concerned, on the research project presented and therefore will not take the written test. Each candidate may submit only one research project for each PhD course for which he / she is applying;

6. the indication of the e-mail address that the Selection Board of the competition will use for the creation of the group on the MICROSOFT TEAMS platform for the invitation to candidates for the interview.

With the application to participate in the competition, each candidate automatically **participates in the general thematic places announced** without the need to make this choice in the telematic platform and can request to participate, in addition, up to two specific research thematic places among those that may be announced for each PhD course.

For the PhD course in "Regulation, Management and Law of Public Sector Organizations", organized in curricula, **the candidate must choose only one curriculum among the 6 foreseen** and within the chosen curriculum he may request to participate, in addition to the places with a general topic for which it will automatically participate, up to two positions with a specific topic among those possibly announced within the chosen curriculum.

Candidates who intend to participate in the reserved places must also attach, under the heading "Other qualifications", the documentation showing that they possess the additional requisite required (eg. 'University of Al Akhawayn or employees (in the case of ASL Lecce).

**The online application is to be considered, for all legal purposes, as an act of self certification of personal data, of the declared qualifications and the statements made as well as of the attached research project (where one is required)** and therefore, with the presentation of the online application, the Applicant assumes personal responsibility, pursuant to articles 46 and 47 of DPR (presidential decree) 445/2000, regarding the declarations he or she has made and the files attached to the online application, in full awareness of the criminal penalties deriving from false statements and / or false declarations.

## **Article 5) Supplementation/ correction of the application**



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The application form may be corrected /supplemented exclusively by electronic means within the deadline for submitting the electronic application indicated in the previous art. 3.

In order to modify/supplement the application, the applicant must access again the website [studenti.unisalento.it](http://studenti.unisalento.it) and click on "MENU" by selecting "ADMISSION TEST/CONCORSI". So he/she may select the competition for which he/she wants to modify the application from "LISTA CONCORSI A CUI SI E' ISCRITTI". Then it must click on "PROCEED WITH ADMISSION" and finally on "COMPLETA IL PROCESSO SELEZIONATO" at the bottom of the page.

**Thus the applicant may access again the submitted application and proceed to replace, delete or add further documents.** At the end of the modifications, the applicant will have to transmit the new application form that will automatically replace the previous one already sent. **The new application generated by the system will permanently cancel the previous one,** so it is recommended to check the correctness and completeness of the documents attached to the last application submitted.

For the PhD course in "Regulation, Management and Law of Public Sector Organizations", organized in agreement with other universities and organized in curricula, in the hypothesis in which it is necessary to proceed, within the chosen curriculum, to a correction / integration of the choice of the chosen scholarships, the candidate must send a note to the certified email address [amministrazione.centrale@cert-unile.it](mailto:amministrazione.centrale@cert-unile.it) to request the person in charge of the procedure to cancel the application presented.

The request for cancellation of the application can be made up to midnight on the third day before the deadline for the announcement.

The person in charge of the procedure will proceed in the required direction and will communicate via email to the candidate the cancellation of the wrongly submitted application so that the same can resubmit a new application within the deadline.

## **Article 6) Applicants with a qualification awarded by a university outside Italy**

Applicants who are in possession of a degree awarded by a university outside Italy which has not yet been declared as equivalent to an Italian degree on the basis of international agreements, must accompany the application form with the following documents:

- Certification of the foreign qualification, together with a translation into Italian or English to be included in the "altri titoli" (other qualifications) of the online application; it must include explicit indication of the university exams taken and grades obtained.

The Admissions Board appointed for admission to the Ph.D. research course will, on the basis of the documentation attached by the Applicant, ascertain the eligibility of the foreign qualification for admission to the Course, "in accordance with current legislation in Italy and in the country where it was awarded and with international treaties or agreements concerning the recognition of qualifications for further education."



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In case of admission to the Ph.D., successful Applicants in possession of such qualifications awarded outside Italy must submit, within ninety (90) days from the date of registration, the following documentation:

- certificates and diplomas translated and legalized by the competent Italian diplomatic or consular representation abroad;
- declaration of value of the foreign qualification issued by the competent Italian diplomatic or consular representatives abroad.

### **Article 7) Responsibility**

The University of Salento does not accept any liability in the event of loss of communications due to: incorrect information about the residence or the address of the Applicant; an Applicant's failure or delay in notifying it of a change of address; or technical problems attributable to the email address indicated by the Applicant. Disabled Applicants, recognized under Italian Law no. 104 of 5 February 1992, must explicitly request in their application form the required support, in relation to their disability, as well as give notification of the possible need for additional time for the completion of the admissions tests.

### **Article 8) Exclusion**

The following applications will be automatically excluded:

- a) applications made and / or received in a manner or timing not in accordance with that specified in article 3 above of this call for applications;
- b) applications from Applicants who do not possess the specific qualifications indicated in the Ph.D. research course descriptions in the appendix to the call for applications or who do not obtain them within the deadline set by the previous art. 2;
- c) applications without a research project, which must be attached when submitting the application form within the deadline specified in article 3 of this call for applications, this refers exclusively to those Ph.D. research courses that require, as specified in the Ph.D. research course descriptions attached to this call for applications, the assessment of the project itself as part of the assessment process;
- d) to be attached electronically already at the time of submitting the application for participation in the terms referred to in the previous Article 3, for all PhD courses;
- e) applications that lack a copy of a valid identity document, which must be uploaded when submitting the online application form.

Any supplementations or corrections to the application not made according to the provisions of Article 5 of this call for applications or made after the deadline has passed, will not be considered valid.

Failure to provide a curriculum vitae or failure to indicate the university exams taken (with relative average marks) or other qualifications assessed by the Admissions Board, indicated in the relevant Ph.D. research course descriptions, will prevent the Admissions Board from being able to assign any mark under the heading "TITOLI" (qualifications).



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In the case of those Applicants who, on the date of application for admission to the competitive selection procedure, are not yet in possession of the degree required to take part in the competitive selection procedure, the Admissions Board may decide to evaluate this qualification, as an alternative to the final degree mark, on the basis of the average mark of the exams sustained in the second level degree course, on the basis of a correspondence criterion that shall be established beforehand.

Likewise, the Admissions Board must establish correspondence criterion in advance with regard to the evaluation of the degree mark obtained abroad by an Applicant.

### **Article 9) Procedure for competitive selection of Applicants**

The competitive selection of Applicants will be carried out according to the timetable which will be published **on 7th September 2022** on the page <https://www.unisalento.it/didattica/dottorati>

If impediments of any kind do not permit the respect of the examination schedule as indicated in the previous paragraph, the University of Salento will publish a notice with all the necessary changes, within three days prior to the date set for the test. This notice will be published exclusively on the website of the University of Salento at [www.unisalento.it](http://www.unisalento.it) in the "News" section and the dedicated section "Dottorati di Ricerca / Bandi per Dottorati di Ricerca".

Both will be considered as official notification to Applicants.

#### **A) DOCTORAL COURSES FOR WHICH THE INTERVIEW FACE TO FACE IS PROVIDED**

As reported in the PhD Programs attached to this call for applications, the interview will take place face to face for the following PhD courses:

- Philosophy: Forms and History of Philosophical Knowledge;
- Human and Social Sciences;
- Mathematics and Computer Science;
- Cultural Heritage Sciences;
- Biological and Environmental Sciences and Technologies

For the hypothesis of an interview foreseen in presence, art. 14, paragraph 8, of the Unisalento Doctoral Course Regulations which establishes that:

*"Candidates residing or domiciled abroad (or who, in any case, can prove, giving adequate reasons, that they are engaged abroad on the date scheduled for the interview) may be admitted, upon request, to take the interview remotely. The request to take the interview remotely must be made by the candidate within the deadline specified in the application notice".*

The request to take the interview remotely for PhD courses for which the "face-to-face" interview procedure is envisaged must be made by the candidate **no**



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**later than four days prior to the date of the interview**, by forwarding the 'attached form (Ann. 4) to the PEC address [amministrazione.centrale@cert-unile.it](mailto:amministrazione.centrale@cert-unile.it) and, for information, to the person in charge of the procedure indicated in the Course form attached to the announcement.

## **B) DOCTORAL COURSES FOR WHICH THE INTERVIEW REMOTELY IS PROVIDED**

The interview will take place exclusively online for the following PhD courses:

- Law and Sustainability;
- Physics and Nanosciences;
- Material, Structure and Nanotechnology engineering;
- Engineering of complex systems;
- Languages, Literatures and Cultures and their applications;
- Regulation, Management and Law of Public Sector Organizations;
- Digital Transformation and Sustainability. Firms and public Administrations in the global Economy.

For these Courses, candidates must already indicate a valid Microsoft Teams account in the application form (annex 2).

Candidates who must take the interview electronically (all, for the Courses listed in the hypothesis referred to in point B) or only those who are entitled and request it (in the hypothesis referred to in point A), are required, in the "hypothesis for admission to the interview:

- to install the software of the MICROSOFT TEAMS platform;
- to connect, on the day and at the time set by the Commission, to their account indicated in the application form in response to the invitation received from the Commission;
- to allow the Commission, before the start of the interview, to identify, by showing the same document already sent, in copy, as an attachment to the application and to use a webcam during the interview.

Failure to connect, the unavailability of the candidate on the day and at the established time or failure to show a valid identity document constitute grounds for exclusion from the selection procedure.

All candidates are admitted to the competition subject to ascertaining that they meet the admission requirements. The Administration may decide at any time, up to the approval of the ranking, the exclusion from the competition for lack of the prescribed requirements.

If the reasons for the exclusion pursuant to this article are ascertained after the completion of the competition, the Rector with his own decree orders the forfeiture of any right resulting from participation in the competition.

The University of Salento reserves the right to carry out sample checks in accordance with the provisions of art. 71 and following of the Presidential Decree n. 445 of December 28, 2000.



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Assessment of applications will be carried out by a single Admissions Board for each Ph.D. research course that will be appointed by the Rector of the University of Salento and composed of between three and five members, proposed by the Ph.D. research course's Academic Board, from among professors and researchers in the relevant Ph.D. research course's subject area. No member of the Academic Board will be able to take part in Admissions Boards for the same Ph.D. research course in two subsequent academic cycles, nor will he or she be able to be subsequently part of final exam adjudicating boards that evaluate the thesis Ph.D. students for whom they were on the Admissions Board. By means of the decree appointing the Admissions Board, the Rector also appoints two professors proposed by the relevant Ph.D. research course's Academic Board as substitutes for the effective members in the event of one or more of them being incapacitated or absent. In the case of doctorates established as a result of international inter-university cooperation agreements, the Admissions Board and the admission procedures are defined in accordance with those same agreements.

For the national PhD course in "Regulation, Management and Law of Public Sector Organizations", organized in agreement with other universities and divided into curricula, the special rules provided for by the PhD Program Organization Regulations, which are an integral part of the agreement, apply. signed by the various universities, the provisions of which are contained in the following art. 10.

The Ph.D. research course Academic Board can propose, in addition to the components indicated above, no more than two experts, including those from abroad, chosen from public and private research bodies and institutions

In such a case, the experts enter the Admissions Board as full members.

In the event of incapacitation, withdrawal or absence of one or more effective members of the Admissions Board, at any stage of the competitive selection procedure, the coordinator shall make the necessary replacements, based on the names of the substitutes specified in the Rector's decree nominating the Admissions Board, taking into account, where possible, the scientific affinity between the member being replaced and his or her substitute.

Pursuant to Article 16. of the Code of Ethics "Obligations of effectiveness in comparative evaluations", as also stated in DR. (Rector's decree) 1323 (19/11/2012) of the University of the Salento:

*"... 1. In all comparative evaluations for the award of scholarships, Ph.D., post-Ph.D. or research grants or specialization contracts as well as in competitive selection procedures for research positions and in all the procedures of recruitment, transfer or recruitment of full and associate professors and in the conferment of teaching courses, the members of adjudicating board, belonging to the University staff regardless of their role, must state that they have read Chapter II of the Code, indicating any cases where these same articles have not been applied..*

*2. All the teaching staff is committed to ensure that scientific and professional collaborations between themselves and their employees are not based on commonality of personal interests that give rise to the suspicion that any comparative assessments of the Applicants are not carried out on the basis of*



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*objective findings, but instead by virtue of personal acquaintance with any member of the adjudicating board ... "*

The competitive selection procedure to the Ph.D. research course and the corresponding marks that may be awarded are indicated in the Ph.D. research course descriptions (attachments A to O of this call for applications).

The competitive selection procedure will aim to determine not only the knowledge acquired with reference to the research areas of the Ph.D. research course, but also to determine the scientific maturity, flexibility, aptitude, motivation and resourcefulness of the Applicant in the face of possibly new areas of research.

The competitive selection procedure will be carried out, pursuant to article 12 of the University Regulations on Ph.D. research courses (D.R. n. 433/2022) by:

- a) the assessment of qualifications (curriculum, university training course, professional experience and research);
- b) the assessment of a written test or a research project, depending on the provisions of the individual Ph.D. research course descriptions.
- c) an interview (viva voce) aimed at verifying the Applicant's knowledge and aptitude in research regarding the themes of the Ph.D. and research course in the specific themes indicated in the call in the event that the candidate has also opted for specific themes, where present (max 45 pp.), as specified in detail in the individual course sheets.

**Applicants are admitted to the interview only if they obtain a mark of at least 30/100 in the assessment of the written exam or research project**

The communication of the results of the assessment of the first stage (written test or research project) will be as specified in the Ph.D. research course descriptions, attached to this call for applications, and which is an integral part of said (attachments A to O).

In the event that a Applicant has submitted an application for a position on a Ph.D. research course with a grant/scholarship subject to a specific research theme, as well as for a position on a general Ph.D. research course, the interview will be both on the general issues as well as on the specific theme and will therefore be carried out separately.

The first two tests (assessment of the research project or written test and assessment of qualifications) and their marks will be common to both types of positions (general and specific research themes).

The third test (interview) will be carried out separately, preferably at the same location and on the same date, for the position on a Ph.D. research course with a general research theme and for a Ph.D. research course on a specific research theme indicated by the Applicant, according to the procedures described in the preceding paragraph and will give rise to distinct and separate marks.

The Applicant will pass the interview stage only if he or she achieves a mark of at least 30/100. Failing this, he or she will not be admitted to the final rankings and consequently will not be in competition for the allocation of positions.



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For positions reserved for employees of entities (ASL LECCE), companies or lecturers at the Al Akhawayn University of Morocco, **candidates will participate only in the selection for the restricted thematic ranking and not for the general thematic ranking.**

At the end of the various selection tests, the Admissions Board will draw up a separate list for each type of position (general research positions on the one hand, and positions subject to a specific research theme on the other) totalling for each type the marks awarded to each Applicant in the three different stages of the competitive selection procedure (i.e. research project or written exam, qualifications and interview).

**Applicants who have opted to compete for positions on both general Ph.D. research Courses and on Ph.D. research course (one or two positions) with a grant/scholarship subject to a specific research theme and have completed all the stages of the competitive selection procedure successfully will be included, subject to the conditions referred to in the previous paragraph, in the two separate rankings with the relative marks. Applicants who have not obtained a grade of at least 60/100 in the ranking for the positions on a general Ph.D. research Course shall not be included in the rankings for the positions on Ph.D. research courses with a specific research theme.**

In the event that the same Applicant is the Winning Applicant, at the same time, of a position on a Ph.D. research course with a general themes with a grant/scholarship and a position on a Ph.D. research course with a grant/scholarship subject to a specific research theme, then the University of Salento will proceed to give him/her the position on the Ph.D. research course with the specific research theme.

In the event that the winner is the winner of two places on a specific topic, he / she must proceed to opt for the chosen one no later than 5 days from the date of publication of the ranking in the online University Register.

The Winning Applicant for a position on a Ph.D. research course with a general theme who is already enrolled on the Course will be required to accept the position on a Ph.D. research course with a specific theme with a grant/scholarship, if those above him or her in the ranking renounce the offered position. Grants/Scholarships for specific research themes will not be awarded if there are no Winning Applicants for the relevant Ph.D. research course with a specific theme.

Positions on Ph.D. research courses with a general theme, with or without a grant, and positions on a Ph.D. research course with a grant/scholarship subject to a specific research theme will be awarded by Rector's decree to Applicants who are at the top their rankings up to the number of positions available for each Course, based on the principles and according to the procedures described above.

For those Ph.D. research courses that provide positions (with or without scholarship) reserved for Applicants who have graduated abroad, in the event that nobody who graduated abroad qualifies, the University of Salento will proceed, pursuant to the combined provisions of the article 8, paragraph 2, penultimate period of the D.M. (ministerial decree) no. 45/2013 and paragraphs 4 and with



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paragraph 1 of the same article 8 to assign the reserved place to the ordinary ranking of suitable Applicants.

If two or more Applicants are awarded the same final mark, the youngest Applicant has precedence in accordance with article 2, paragraph 9, of Italian Law no. 191/98.

Where a grant must also be awarded, however, the following criterion is applied: article 7, fourth paragraph of D.M. n. 224/99, namely the assessment of the Applicant's financial situation. In case of a tie, therefore, the scholarship will be awarded to the Winning Applicant in possession of a lower ISEE (level of income). The rankings will be approved by the Rector by decree and published at [www.unisalento.it](http://www.unisalento.it) in the "Dottorati di Ricerca" (Ph.D.) section via the link "Bandi e Concorsi" (Calls and Competitive Selection), as well as the in online section of the "Albo" (official register), which will be considered as official notification to Applicants.

This Administration will not send individual messages to interested parties considering the publication of the rankings in the forms and in the manner described above.

The number of places and scholarships announced with the aforementioned provision may be subject to a subsequent extension as a result of the participation of the University in competitive tenders, public notices issued by public or private entities or funding from private entities.

The procedures for assigning any and additional additional scholarships will be made on the basis of the rules contained in the same calls in which the University will participate, using, in the absence of indications to the contrary contained in the aforementioned calls, the general classification of eligibility of the competitions for admission to the 38th cycle of the research doctorate courses referred to in this announcement.

## **Article 10 – Admission procedures for the national PhD course in "Regulation, Management and Law of Public Sector Organizations"**

The public selection for admission to the national doctoral course for the P.A. in "Regulation, Management and Law of Public Sector Organizations", aimed at ensuring an appropriate comparative assessment of applicants, takes place in the same way as for the other PhD courses indicated in the previous article, with some limited specialty characteristics deriving from specific regulatory provisions contained in the Operating Regulations of the national PhD program, organized in agreement between several universities and implemented in this article.

The procedures for carrying out the tests and the relative scores are contained in detail in the course sheet attached to this admission notice (Annex L).

The PhD course is divided into 6 different curricula which are indicated in the course sheet.

The applicant will have to **choose one curriculum** only when submitting the application for admission and will automatically participate for the general thematic positions included in this curriculum, indicated in the course sheet.



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The applicant will also be able to choose, only and exclusively within the chosen curriculum, up to n. 2 positions (where available) with a specific thematic scholarship, by selecting the related options on the platform.

It will not be possible for the applicant to rectify the chosen curriculum after the deadline for submitting the application or in a manner different from those provided for in this announcement.

The Commission of selection for admission to the Course is appointed by Decree of the Rector of the University of Salento on the proposal of the Academic Board.

The Commission is composed of at least n. 5 members, proposed by the Academic Board and chosen from among full professors, also coming from non-Italian universities, pertaining to the research topics to which the Doctoral Course refers.

Taking into account that the Doctoral Program is organized in curricula with separate rankings for each Curriculum, the Commission may also be composed of professors who are experts in the topics of each Curriculum.

The Commission can be integrated by an expert with proven competence in the subject, also belonging to the Board of Professors of the Doctorate, for one or more research topics with a specific topic put up for tender.

At the end of the exams, the Commission will proceed to draw up distinct merit rankings, distinct by curriculum and within each curriculum, for each type of place (ranking for general thematic places and ranking for each of thematic positions bound, if necessary, provided for in the Course form attached to this announcement) adding, for those who have successfully passed the interview, the score achieved by the candidates in the three exams (research project, qualifications and interview).

Applicants who have not obtained a score of at least 60/100 in the ranking for positions of a general nature cannot be placed in the rankings for places with a specific topic.

The Rector verifies the regularity of the competition documents and approves, with his own decree, distinct rankings of merit divided by Curriculum and divided, within each curriculum, by general topic and restricted topic positions, assigning the related scholarships.

With the same score between several candidates, the younger of the age prevails pursuant to art. 2, paragraph 9, of Law no. 191/98. In the event that the scholarship is also to be awarded, however, the precedence criterion provided for by art. 7, fourth paragraph of the D.M. n. 224/99, ie the assessment of the economic situation. In the event of a tie, therefore, the scholarship will be awarded to the winner in possession of a valid ISEE of a lower amount.

#### **Art. 11 - Enrollment on the Ph.D. research course**



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All Applicants admitted to the Ph.D. research course are required, under penalty of forfeiture, to proceed with online registration to the same, **within 15 days of the date of publication of the rankings on the University website** [www.unisalento.it](http://www.unisalento.it) in the section dedicated to “Dottorati di Ricerca” (Ph.D.) via the link *Bandi e Concorsi* (Calls and Competitive Selection), and in the online *Albo* (Official register), following the procedures that will be indicated in a special document that will be published together with the decree approving the workings of the Admissions Board.

**Winning Applicants will not be contacted individually.**

The deadline indicated in the first paragraph is the last within which to have obtained the qualification in the case of candidates who have submitted an application with reserve.

To enrol on the course all Winning Applicants (including Winners of grants/scholarships) will have to pay, within the preemptory term of 15 days, in a single payment the Puglian (Apulian) regional tax for “diritto allo studio” (Right to Education), at the time of enrolment or in the second year of the Course.

**Winner Applicants who fail to register for the first year within the time limits indicated above will be considered to have tacitly renounced their position.**

The University of Salento at any time of the procedure and also after the start of the Ph.D. research course, may carry out targeted and random checks, under article DPR 71 (presidential decree) no.445 of 28 December 2000, regarding the information and declarations produced by the Applicants, regarding the validity of the documents attached by the Applicants to the online application and it may also request the original of the aforementioned documents.

The University of Salento can decide at any time, with appropriate motivation, to exclude Applicants from the competitive selection procedure due to an absence of the requisites required by the call for applications.

### **Art. 12) Renunciations and Scrolling of the Rankings**

In the event of renunciation or withdrawal by the Winning Applicant for a position (with or without grant) the position that has become available will be assigned by Rector's decree according to the order of the rankings.

In case of scrolling, the succeeding winners will have a period of 5 days from the individual notification of the scrolling to proceed with the acceptance of the relevant place.

The deadline for proceeding with the scrolling of the ranking is of 90 days from the start date of the course, with the exception of the hypothesis of additional places with scholarship funded by external bodies or resulting from the participation of the University in selective procedures.

### **Article 13) Grants, rights and obligations of Ph.D. students**

Successful Applicants must declare in their application:



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- that they have not previously received any other grants/scholarships for the attendance of a Ph.D. research course;
- that they will undertake not to cumulate the amount of the grant/scholarship with any other grant/scholarship for any reason whatsoever, except with those explicitly granted, in addition to the Ph.D. research course grant/scholarship, by national or international institutions to allow training or research abroad or anywhere else away from the seat of the Ph.D. research course;

Scholarships will last one year and shall be renewed provided that the student has completed the course of activities for the previous year, subject to the obligation to disburse the grant/scholarship after passing the evaluation to be carried out by the Academic Board by September 31st of each academic year.

The confirmation of the grant/scholarship for the years subsequent to the first is done by formal resolution of the Academic Board of the Ph.D. research course in question.

A negative judgment on the part of the Academic Board will result in the forfeiture of the doctorate.

The amount of the grant is determined by the Ministry of Education, Universities and Research (MIUR) n. 247 on February.

This amount may be adjusted with any increase envisaged by law and by ministerial norms and regulations on the subject. The duration of the scholarship is equal to that of the Ph.D. research course (three years).

The scholarships funded by IIT are higher than the standard amount, established by the agreement signed with the Institute.

The grant is paid by means of monthly payments, in arrears.

The amount of the scholarship is increased by 50% for any periods of residence abroad, from a minimum of 20 consecutive days to a maximum of 12 months, except as provided for in the case of special agreements.

The Ph.D. research course has a duration of three years.

Students are required to attend the courses and carry out the teaching, study and research activities envisaged by the Academic Board and to present, at the end of each year of said course, to the Academic Board, a report on the research activity carried out and the results achieved, in the terms and in the manner established by the Academic Board itself and on the basis of the indications contained in the operational indications issued by the Rector with protocol no. 42975, on 03/27/2020.

The evaluation of the Ph.D. students' activities must be carried out by the Academic Board at least once a year, generally within 30 days from the end of the Ph.D. research course year.

The presentation of the thesis for the final exam must take place within the deadline set by article 19 of the Ph.D. regulations currently in force. The Academic Board will submit the thesis to the assessors only in the event of a positive judgment granted to the candidate's course of studies and the achievement of the necessary ECTS in the three years of the course.

For anything not specified in this article about the rights and duties of Ph.D. students and the institution of the interruption, suspension, revocation or withdrawal from the Course, please refer to the provisions article 22 of the regulations in force regarding Ph.D. research courses issued by Rector's decree no. 433/2022.



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## **Article 14) Exemption from contribution for accessing and attending the Course**

All students enrolled in Ph.D. research courses are exempt from the payment of fees for access and attendance of the said courses with the exception of the regional tax provided for in the following article and the stamp duty required by law.

### **Art . 15) Regional tax for the Right to Education**

All students enrolled in the Course of study will have to annually pay the amount of the regional tax for the Right to Education in accordance with the amounts set annually by the Puglia region Right to Education agency (ADISU) pursuant to art. 11 of Italian Regional Law (Puglia) 45/2012.

The amounts to be paid will vary on account of the student's ISEE (level of income) values at the time of enrolment:

Regional right-to-study tax	ISEE (level of income) values
€ 120,00	Students with ISEE equal or inferior to €23.000,00
€ 140,00	Students with ISEE between € 23.001,00 ed € 46.000,00
€ 160,00	Students with ISEE superior to € 46.000,00

In case of failure to indicate their ISEE value, the student will be liable to the highest level of regional tax (€ 160,00).

The amount of the regional tax for the Right to Education and the values for the ISEE bands may be subject to change according to regional regulations.

In such a case, further details will be communicated.

### **Article 16) Exemption for Ph.D. students with disabilities**

Specific forms of total or partial exemption from the payment of taxes and / or contributions for disabled students are envisaged, both with a degree of disability, following the Italian scale of disability, equal to or greater than 66%, and with disability between 31% and 65%.

Students with a recognized disability equal to or greater than 66% are exempt from paying taxes and contributions.

Students with disabilities between 31% and 65% benefit from a partial exemption from the registration fee with linear application until it is zeroed for percentages greater than or equal to 65%.

### **Art. 17) Intellectual property of research results and publications**



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Without prejudice to the Italian copyright law (Legislative Decree 633/1941 and subsequent modifications), The intellectual and industrial property rights regarding the results achieved by the PhD student, including, by way of example and not limited to, software, industrial inventions, whether patentable or not, know-how, models, data and data collections, are regulated in accordance with the current legislation and the University regulations and, possibly, on the basis of what is established in the individual agreements with the universities, companies or entities involved.

### **Article 18) Procedure for attaining a “Dottorato di ricerca”**

The procedures relating to the presentation of the Ph.D. thesis and the appointment of the Evaluators and Final Examination Board are contained in the guidelines for the conferment of the title of “Dottorato di ricerca” attached to the D.R. (Rector’s decree) n. 105, on 02/21/2017.

The timing of the presentation of the doctoral thesis is instead fixed by article 19, third paragraph of the current Ph.D. research course regulations issued by Rector's decree n. 433/2022.

### **Article 19) Final Thesis**

Ph.D. theses must be in digital format in order to allow their filing, as required by law at the National Libraries of Rome and Florence and at the University of Salento open-access institutional archive if it is already active and available.

The conferment of the certificate of attainment of the title of “Dottorato di Ricerca” is dependent on the depositing, by the interested party, of the final thesis in the University of Salento open-access institutional archive which will guarantee its preservation and availability for public consultation and which will deposit the said thesis, as required by law, at the National Libraries of Rome and Florence.

### **Article 20) Accessibility of Ph.D. theses**

Accessibility to the Ph.D. thesis in the University of Salento open-access institutional archive may be subject to restrictions, for the following reasons:

- a) parts of the thesis have already been submitted to a publisher or are awaiting publication;
- b) the thesis contains sensitive content data (article 4 of decree n. 196, June 30, 2003)
- c) the thesis is financed by external entities that have rights over it and over its publication;
- d) parts of the thesis have been discussed at a date that is earlier than the discussion and thus subject to patent protection;

In the cases referred to in letter b), the thesis will only be made available if it is possible to make the data anonymous.

As for the other cases, there could be a 12-month suspension of free access, but only after the Academic Board has expressed its approval and following a reasoned request on the part of the student countersigned by his/her tutor.



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The suspension of free access can be extended, with a similar procedure, for a further 6 months. Any request for a longer suspension period, in any case not exceeding three years, in exceptional and duly justified cases will be evaluated by the Rector.

At the end of the suspension period, the thesis will however be made freely available for consultation.

### **Article 21) Reference Regulations**

Those matters which are not covered by this call for applications are subject to the rules laid down in the University Regulations for the establishment and organization of Ph.D. research courses (DR. Rectors decree no. 433/2022).

The following applies to public employees enrolled in the Ph.D. research courses: article 2, paragraph 1, of Italian Law no. 476/84 as recently amended with Italian Law n. 240/2010.

This call for applications contains an English translation that cannot be used for legal purposes and is exclusively designed to assist foreign Applicants.

### **Article 22) Privacy policy**

Article 13 of Italian Law no. 196 (30 June 2003) establishes that the personal data provided by the Applicants to the University of Salento at the time of application shall be used exclusively for institutional purposes and for the completion of any inherent procedures conducted by the persons carrying out the competitive selection procedure, also by the Admissions Board (at the University of Salento, Ufficio Master e Dottorati), even with the use of computerized procedures, in the manner and within the limits required for the above purposes, even in the event of any communication to third parties pursuant to current national and EU legislation. Providing such information is necessary to assess the Applicants' eligibility and qualifications and failure to do so may preclude such an assessment. Applicants are entitled to various rights under article 7 of the Italian Law no. n. 196/03, in particular, the right to access their personal information, to request correction, supplementation and cancellation if such information is incomplete, incorrect or collected in violation of the law, and to oppose their processing for legitimate reasons by directing requests to the Rector of the University of Salento, Prof. Fabio Pollice Piazzetta Tancredi 7- 73100 Lecce.

The complete information on the processing of personal data can be viewed at the following address:

<https://www.unisalento.it/documents/20143/970815/Informativa+trattamento+dati+degli+studenti.pdf/b6722c1f-170f-a094-5ba8-98abf4a5ba2e>

### **Article 23) Responsible parties for the application and competitive selection Procedure**

The Master and Dottorati Office at the Università del Salento is responsible for any procedural aspect related to this call for applications.



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The person in charge of the administrative procedure and data processing is indicated in the attached sheets (A – O).

One can also contact the Ufficio Master e Dottorati at the following telephone numbers +39 (0)832/9210-9228-9041-9210; e-mail addresses: master.dottorati@unisalento.it;

Foreign applicants can request information on the admission procedures to the PhD competition to the **WELCOME OFFICE** (welcome.office@unisalento.it).

### **Article 24) Final Provisions**

This call for applications will also be advertised by electronic means on the site [www.unisalento.it](http://www.unisalento.it) in the "News" section and in the "Dottorati di Ricerca / Bandi per Dottorati di Ricerca" section, as well as on the European Euraxess website and on the Italian Ministry of Education, Universities and Research (MIUR) website.

The Rector  
(Prof. Fabio POLLICE)



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**All. F)**

**CORSO DI DOTTORATO IN “INGEGNERIA DEI SISTEMI COMPLESSI”**

(Phd Course in “**Engineering of complex systems**”)

<b><u>Dipartimento proponente</u></b> <i>Department</i>	Ingegneria dell'Innovazione <i>Engineering for Innovation+</i>
<b><u>Coordinatore</u></b> <i>Coordinator</i>	Prof. Giulio Avanzini - tel. 0832/297798  Mail: <a href="mailto:giulio.avanzini@unisalento.it">giulio.avanzini@unisalento.it</a>
<b><u>Durata</u></b>  <i>Total duration</i>	3 anni  <i>3 years</i>
<b><u>Posti e borse di studio</u></b> <i>Positions and scholarships</i>	<p><b><u>Numero complessivo di posti</u></b> <b>51</b></p> <p><b><u>Posti a tematica generale</u></b> <b>7</b></p> <p>- di cui con borsa di studio su fondi di Ateneo <b>4</b></p> <p>- senza borsa di studio <b>3</b></p> <p><b><u>Posti riservati a dipendenti di imprese impegnati in attività di elevata qualificazione (dottorato industriale) o a docenti di istituti e centri di ricerca pubblici impegnati in attività di elevata qualificazione (con mantenimento di stipendio)</u></b> <b>1</b></p> <p>Convenzioni con:</p> <p>- Università Al Akhawayn, Ifrane (Marocco) riservata a docenti di tale Ateneo <b>1</b></p> <p><b><u>Posti a tematica vincolata:</u></b> <b>43</b></p> <p>Costituiscono posti a tematica vincolata i seguenti:</p> <p>- posti finanziati PNRR ex D.M. 351 <b>1</b></p> <p>- posti finanziati PNRR ex D.M. 352, cofinanziati da imprese <b>35</b></p> <p>- posti finanziati da imprese o enti esterni <b>7</b></p> <p>Il valore delle borse di studio su convenzione o progetto corrisponde all'importo indicato dal DM n. 247/2022 ed è quindi equivalente a quello delle borse bandite sui fondi d'Ateneo, con la sola eccezione della borsa finanziata da IIT il cui importo è indicato nella convenzione.</p> <p>I candidati interessati alle posizioni a tematica vincolata (comprese in 8 aree tematiche che raggruppano le borse su tematiche di ricerca</p>



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omogenee) dovranno dichiarare nella domanda il loro eventuale interesse per massimo 2 delle 8 aree indicate. I candidati che concorrono per posizioni a tematica vincolata verranno inseriti sia nella graduatoria generale che nelle graduatorie separate, relative alle aree tematiche prescelte.

L'assegnazione delle singole borse tematiche a ciascun vincitore verrà effettuata dal Collegio dei Docenti, sentiti i candidati idonei collocati in posizione utile nella graduatoria separata per l'area tematica indicata, nell'ordine stabilito dalla medesima.

I docenti in servizio presso l'Università di Ifrane dovranno candidarsi alla posizione riservata alla loro istituzione e parteciperanno solo per tale posizione (e non per la graduatoria a tematica generale).

**Non è possibile essere selezionati per borse a tematica vincolata, se non si indica esplicitamente nella domanda la relativa area tematica, selezionando l'apposita opzione che ne consente la partecipazione.**

I candidati dichiarati vincitori delle borse tematiche escono dalla graduatoria generale, che verrà poi utilizzata per assegnare le borse FUR, e si impegnano a rispettare le regole previste dalla convenzione tra Università del Salento ed ente finanziatore.

L'accesso a posizioni a tematica vincolata è comunque condizionato al raggiungimento del punteggio minimo per l'ammissione al corso.

Di seguito sono indicati n. 8 gruppi di borse affini a tematica vincolata raggruppati in AREE TEMATICHE per i quali i candidati possono presentare domanda.

Il candidato parteciperà in automatico per le borse a tematica generale e potrà scegliere fino a due AREE TEMATICHE (che raggruppano un certo numero di borse a tematica vincolata di seguito specificate).

Per ciascuna AREA TEMATICA (da n. 1 a. 8) sarà predisposta un'autonoma e distinta graduatoria.

**Posto finanziato a valere sul PNRR - ex D.M. 351**  
**Area tematica 1 (1 borsa)**

Tecnologie abilitanti per le smart cities.

**Posti finanziati ex D.M. 352**

**Area tematica 2: Ingegneria industriale**  
**(10 borse)**

a) 2 borse cofinanziate da Circular Research Foundation  
a1. Sviluppo di operazioni unitarie e sintesi di processo per la produzione di e-fuels a partire da streams gassosi (biogas, syngas, idrogeno), mediante operazioni di purificazione, biocatalisi e sintesi catalitica. Bilanci di materia delle operazioni



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unitarie e sviluppo di modelli delle operazioni elementari. Sviluppo di prototipi a scala laboratorio e pilota e applicazione della modellistica ai prototipi. Attività di sintesi di processo mediante modelli sviluppati in Aspen Plus e studi di fattibilità per l'industrializzazione delle tecnologie proposte.

a2. Sviluppo di modelli di controllo predittivo basati su approccio ibrido (principi di conservazione e algoritmi di Machine Learning), relativi a operazioni di trattamento di stream gassosi e liquidi nella filiera della produzione di e-fuels mediante operazioni termochimiche e biochimiche. I modelli di controllo saranno sviluppati con linguaggi e librerie open source per l'applicazione a impianti a scala laboratorio e pilota. La ricerca riguarderà lo studio di bilanci di materia ed energia, studio del reattore e fenomeni di trasporto reattivo.

b) 1 borsa cofinanziata da Novotech

Studio di sistemi propulsivi innovativi e ibridi basati sull'utilizzo dell'idrogeno o di SAF per la propulsione di velivoli leggeri multifunzionali.

c) 1 borsa cofinanziata da Reilab srl

Materiali innovativi per batterie e dispositivi avanzati di conversione e accumulo di energia

d) 1 borsa cofinanziata da DFV srl

Ottimizzazione del ciclo produttivo nell'ambito di ricoprimenti superficiali di profili in alluminio.

e) 1 borsa cofinanziata da DFX srl

Modellizzazione agli elementi finiti del processo di estrusione di leghe di alluminio.

f) 1 borsa cofinanziata da SF Systems srl

Sistema di fertirrigazione costituito da un software per il supporto alle decisioni dell'agricoltore e un hardware capace di tradurre le decisioni in azioni (fertilizzazione e irrigazione) in modo automatizzato.

g) 1 borsa cofinanziata da Freudenberg Technology Innovation SE & Co. KG, Germania

Modellazione e fabbricazione di superfici intelligenti, che facciano uso di approcci di bio-mimetica al fine di controllare le caratteristiche di attrito, usura, adesione e wetting, lubrificazione, anche in-operando, attraverso la funzionalizzazione topografica ed infiltrazione multiscala di lubrificante.

h) 1 borsa cofinanziata da Monteco S.p.A.

Sviluppo di sistemi di trattamento dei rifiuti a basse emissioni di CO<sub>2</sub> in ambiente.

i) 1 borsa cofinanziata da Bosch Italia R&D - CVIT

Autoaccensione dell'idrogeno in motori a iniezione diretta.

**Area tematica 3: Ingegneria dell'informazione  
(7 borse)**



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	<p>a) 2 borse cofinanziate da Echolight S.p.A.</p> <p>a1. Sviluppo di nuove tecniche di caratterizzazione tissutale avanzata, finalizzata alla diagnosi precoce di degenerazioni patologiche attraverso l'analisi di segnali ultrasonici ed immagini ecografiche.</p> <p>a2. Sviluppo di un beamformer ecografico ottimizzato per l'acquisizione dei segnali ultrasonici a radiofrequenza (cosiddetti segnali ultrasonici "grezzi") generati durante una scansione ecografica.</p> <p>b) 1 borsa cofinanziata da Parsec 3.26 Interoperabilità del documento informatico: modelli avanzati per la sua definizione.</p> <p>c) 1 borsa cofinanziata da HSPI S.p.A. Preparazione e arricchimento dei dati per il process mining in contesti industriali continui e discreti</p> <p>d) 1 borsa cofinanziata da Euronet srl Piattaforma elettronico-meccanica assistita da moduli intelligenti per misure iperspettrali in volo.</p> <p>e) 1 borsa cofinanziata da Consorzio Mediterraneo Affidabilità e caratterizzazione della strumentazione biomedica attraverso prove tipo ed accelerate, con analisi dei guasti.</p> <p>f) 1 borsa cofinanziata da E2 srl Studio di sistemi per l'automazione della produzione industriale dell'idrogeno</p> <p><b>Area tematica 4: Ingegneria gestionale (13 borse)</b></p> <p>a) 1 borsa cofinanziata da Parsec 3.26 Definizione di modelli tecnico-organizzativi che possano supportare le aziende nella trasformazione digitale, nonché dei requisiti tecnologici volti a migliorare la qualità dei servizi pubblici digitali, valorizzando il dato inteso come patrimonio informativo pubblico.</p> <p>b) 1 borsa cofinanziata da Mediatica S.p.A. Progettazione e implementazione di una soluzione di global digital management che associa ad un compendio di strategie progettuali, metodologiche e di competenze, la realizzazione di un prodotto costituito da una piattaforma integrata di tecnologie disruptive.</p> <p>c) 1 borsa cofinanziata da Weave srl Progettazione di un modello tecnico-organizzativo che possa sostenere gli ecosistemi organizzativi nello sviluppo di tecnologie, metodologie e modelli organizzativi per abilitare i processi di gestione della conoscenza in ambito HR.</p> <p>d) 1 borsa cofinanziata da OK Appalti srls Definizione di una metodologia per la digitalizzazione dei processi di gestione commerciale e delle procedure dei sistemi di gestione dei clienti.</p> <p>e) 1 borsa cofinanziata da Zero DD scarl</p>
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Definizione di metodi e approcci basati sul Business Process Management, per abilitare l'analista a implementare processi tramite l'utilizzo di piattaforme di sviluppo low-code and zero-code.

f) 1 borsa cofinanziata da Famas System S.p.A.

Studio e definizione di nuovi modelli tecno-organizzativi di "Interactive City", intesi come un modello di città/comunità intelligente basati su un ecosistema di cluster dinamici che utilizzano tecnologie e dati digitali per supportare le decisioni e migliorare la qualità di vita.

g) 1 borsa cofinanziata da Resiltech srl

Studio e definizione di modelli tecno-organizzativi per la gestione integrata delle problematiche di cybersecurity che caratterizzano le moderne infrastrutture critiche connesse in rete.

h) 2 borse cofinanziate da Deloitte Consulting srl

h1. Studio e analisi di nuovi processi di Data Governance e metodologie di organizzazione dei dati aziendali al fine di garantire una gestione efficace ed efficiente delle informazioni.

h2. Studio e analisi di strumenti di Machine Learning e Deep Learning per l'analisi delle serie temporali applicate al sales forecasting.

i) 1 borsa cofinanziata da Nardò Technical Center

Progettazione e sviluppo di un "custom-AI Autonomous Planner" per l'integrazione tra automazione e decision-making umano in ambito automotive.

j) 1 borsa cofinanziata da E4 Computing Engineering S.p.A.

Studio e analisi del dominio HPC Cloud, con particolare attenzione agli aspetti relativi alla sicurezza.

k) 1 borsa cofinanziata da Ready2Use srl

Studio e analisi di metodologie per applicazioni sicure in ambito RPA/IPA e prevenzione di attacchi informatici effettuati con tali tecniche.

l) 1 borsa cofinanziata da Altea 365 srl

Studio e progettazione di nuovi framework di "Cybersecurity and Cyber threat intelligence".

#### **Area tematica 5: Centro i-STORE, Gruppo 1 (5 borse)**

a) 1 borsa cofinanziata da Commedia s.r.l.

Soluzioni innovative ICT basate su Distributed Ledger Technologies, blockchain, e IoT nell'ottica di contribuire all'evoluzione di vari domini di pubblico interesse (logistica, smart cities e smart communities).

b) 1 borsa cofinanziata da Gematica s.r.l.

Sistemi ICT innovativi basati su tecnologie IoT a basso costo e bassa potenza come BLE o UWB per la trasmissione contemporanea di dati di telemetria e di posizione attraverso l'uso di tecniche di Intelligenza Artificiale.



c) 2 borse cofinanziate da Inmatica S.p.A.

c1. Studio e sviluppo di soluzioni ICT innovative basate sull'uso combinato di tecnologie IoT (indossabili e ambientali) con modelli di intelligenza artificiale per la detection e il tracking di giocatori di calcio, con il fine di supportare il calcolo automatico di specifiche misure/parametri di interesse attraverso la definizione di modelli di Digital Twin applicati in ambito sportivo

c2. Studio e sviluppo di soluzioni innovative basate su tecnologie abilitanti la IoT e tecniche denominate "Symbiotic Artificial Intelligence" per la realizzazione di nuovi algoritmi di Intelligenza Artificiale a supporto di piattaforme collaborative a servizio delle Pubbliche Amministrazioni e dei cittadini.

d) 1 borsa cofinanziata da Parsec 3.26

Soluzioni IoT innovative per monitorare, supportare, migliorare e promuovere uno sviluppo sostenibile e digitale nell'ambito delle smart home e delle smart building mediante l'utilizzo di approcci basati su Edge Computing, Artificial Intelligence e Blockchain.

#### **Posti finanziati da Ditte o Enti esterni**

#### **Area tematica 6: Centro i-STORE, Gruppo 2 (3 borse)**

a) 2 borse finanziate da IIT

a1. Sistemi ICT Innovativi di supporto alla guida sicura in ambito automotive per rilevare dati fisiologici e biometrici del guidatore sfruttando la combinazione di sensoristica avanzata, Intelligenza Artificiale e Edge Computing applicati in ambito IoT.

a2. Soluzioni innovative basate sull'Edge Computing e l'AI per abilitare l'adozione del Personal IoT in Healthcare applicato al settore dell'assistenza sanitaria da remoto e benessere personale mediante tecniche innovative di anomaly detection e deep learning.

b) 1 borsa finanziata da CNR-ISASI

Approcci innovativi basati sul Deep Learning nel campo dell'Hyperspectral Imaging (HSI) classification attraverso la costruzione di modelli computazionali profondi che siano allenati con pochi campioni etichettati.

#### **Area tematica 7: T&T (2 borse)**

a) Energie rinnovabili per la generazione di idrogeno

b) Energie rinnovabili ed efficienza energetica

#### **Area tematica 8: Cortus (2 borse)**

a) Studio di Front-end Analogici per ricevitori riconfigurabili NB-IoT/Bluetooth.

L'attività di ricerca prevede di individuare architetture circuitali di ricevitori wireless in grado di garantire una riduzione dei consumi di potenza. Il basso consumo di potenza è un aspetto cruciale per i dispositivi portatili in



quanto permette di aumentare la durata delle batterie. Per questo motivo, si focalizzerà l'attenzione su soluzioni su misura in tecnologia integrata CMOS. Allo stesso tempo occorre garantire al ricevitore una certa flessibilità che gli permetta di accomodare più standard di comunicazione, ad esempio NB-IoT e Bluetooth. Tale flessibilità va raggiunta condividendo quanto più possibile l'hardware per i due tipi di ricevitore, per ridurre anche occupazione di area e, di conseguenza, i costi di fabbricazione.

b) Studio di algoritmi per il processamento del segnale per ricevitori riconfigurabili NB-IoT/Bluetooth.

L'attività riguarda lo studio degli standard NB-IoT e Bluetooth. L'obiettivo è quello di valutare in particolare quale funzioni e blocchi circuitali che compongono il back-end digitale, si possono condividere per risparmiare hardware e potenza e come ottimizzare l'elaborazione per migliorare l'efficienza complessiva dell'elaborazione del segnale. A tal fine è necessario modellare le funzionalità fondamentali della catena di ricezione con un linguaggio di programmazione il più vicino possibile al livello macchina.

**N. 1 posto riservato a dipendenti di imprese impegnati in attività di elevata qualificazione (dottorato industriale) o a docenti di istituti e centri di ricerca impegnati in attività di elevata qualificazione**

1 posizione riservata a docenti dell'Università Al Akhawayn, Ifrane (Marocco)

*ENGLISH VERSION*

***Number of positions*** **51**

***General positions*** **7**

- Scholarships on University budget 4

- Ph.D. Positions without scholarship 3

***Positions reserved to personnel from highly qualified companies (industrial Ph.D.) or research institutions*** **1**

Agreements with  
- Università Al Akhawayn, Ifrane (Marocco) 1

***Positions with a pre-defined topic:*** **43**

- Scholarships funded on D.M. 351 1

- Scholarships funded on D.M. 352, cofounded by private companies 35

- Scholarships funded by external companies 7

Scholarships funded by private companies or project funds are equivalent to those funded on University resources, equal to the minimum required by the current regulation of the Italian Ministry for Education, with the exception of the scholarships



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*funded by IIT, defined in the agreement between IIT and UniSalento.*

*Scholarships with a pre-defined topic are grouped into 8 research areas. The interested candidates must apply up to 2 of the 8 research areas, explicitly indicating their option(s) on the application form.*

*Candidates to specific positions will also be evaluated within the general list, but a separate shortlist will be defined by the selection committee for each research area of positions with a pre-selected topic. The Ph.D. Board will assign the specific research theme and the associated scholarship to the candidates of the separate short list for the area, after hearing them.*

*Candidates from Ifrane University should also apply to the reserved positions for their institution and they will be evaluated only for this position (i.e. they will not appear in the general shortlist).*

***It is not possible to be shortlisted for scholarships with a pre-defined topic, if the interest for the research area is not explicitly stated in the application form by selecting the corresponding option, within the application procedure.***

*The PhD candidates selected for one of the research areas grouping positions with pre-defined topics are taken out of the general list. They will comply with rules and requirements stated in the agreement between the University of Salento and the funding company.*

*The thresholds for admission to the Ph.D. course are applied to all candidates, including the candidates applying to reserved positions.*

***Position funded on D.M. 351  
Research Area No. 1 (1 grant)***

*Enabling technologies for smart cities.*

***Positions funded on D.M. 352***

***Research Area 2: Industrial Engineering  
(10 positions)***

*a) 2 positions cofunded by Circular Research Foundation*

*a1. Development of unit operations and process synthesis for the production of e-fuels starting from gaseous streams (biogas, syngas, hydrogen), through purification, biocatalysis and catalytic synthesis operations. Balance sheets of unit operations and development of models of elementary operations. Development of laboratory and pilot scale prototypes and application of modeling to prototypes. Process synthesis activities using models developed in Aspen Plus and feasibility studies for the industrialization of the proposed technologies.*



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	<p><i>a2. Development of predictive control models based on a hybrid approach (conservation principles and Machine Learning algorithms), related to gaseous and liquid stream treatment operations in the e-fuels production chain by means of thermochemical and biochemical operations. The control models will be developed with open source languages and libraries for application to laboratory and pilot scale plants. The research will concern the study of matter and energy balances, the study of the reactor and reactive transport phenomena.</i></p> <p><i>b) 1 position cofunded by Novotech</i> <i>Study of innovative and hybrid propulsive powertrains fueled by hydrogen and sustainable aviation fuels (SAF) for multifunctional light aircraft applications.</i></p> <p><i>c) 1 position cofunded by Reilab srl</i> <i>Innovative materials for batteries and advanced energy conversion and storage devices</i></p> <p><i>d) 1 position cofunded by DFV srl</i> <i>Optimization of the production cycle in the context of surface coatings of aluminum profiles.</i></p> <p><i>e) 1 position cofunded by DFX srl</i> <i>Finite element modelling of the aluminum alloy extrusion process.</i></p> <p><i>f) 1 position cofunded by SF Systems srl</i> <i>Fertigation system consisting of software to support the farmer's decisions and hardware capable of translating decisions into actions (fertilization and irrigation) in an automated way.</i></p> <p><i>g) 1 position cofunded by Freudenberg Technology Innovation SE &amp; Co. KG, Germania</i> <i>Modelling and micro-fabrication of smart, bio-inspired surfaces for controlling friction, wear, adhesion and wetting, lubrication, even in real-time, through the topographic functionalization and multiscale infiltration of lubricant.</i></p> <p><i>h) 1 position cofunded by Monteco S.p.A.</i> <i>Development of waste treatment systems with low CO<sub>2</sub> emissions into the environment.</i></p> <p><i>i) 1 position cofunded by Bosch Italia R&amp;D - CVIT</i> <i>Hydrogen auto-ignition in direct injection engines.</i></p> <p><b>Research Area 3: Information Technologies (7 positions)</b></p> <p><i>a) 2 positions cofunded by Echolight S.p.A.</i> <i>a1. Development of new techniques for advanced tissue characterization aimed at early diagnosis of pathological degeneration through analysis of ultrasonic signals and ultrasound images.</i> <i>a2. Design and implementation of an optimized echographic beamformer for radiofrequency-based</i></p>
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*ultrasound signals (so-called raw ultrasound signals) generated by echographic scanning.*

*b) 1 position cofunded by Parsec 3.26*

*Advanced models for digital Public documents interoperability.*

*c) 1 position cofunded by HSPI S.p.A.*

*Data enrichment and data preparation for process mining in continuous and discrete industrial processes.*

*d) 1 position cofunded by Euronet srl*

*Electronic and mechanical platform aided by intelligent units for in-flight hyperspectral measurements.*

*e) 1 position cofunded by Consorzio Mediterraneo*

*Reliability and characterization of biomedical instrumentation through type and accelerated tests, using faults analysis.*

*f) 1 position cofunded by E2 srl*

*Systems for the automation of hydrogen industrial production.*

**Research Area 4: Management Engineering  
(13 positions)**

*a) 1 position cofunded by Parsec 3.26*

*Definition of technical-organisational models that can support companies in their digital transformation, as well as technological requirements to improve the quality of digital public services, enhancing the value of data as public information assets.*

*b) 1 position cofunded by Mediatca S.p.A.*

*Design and implementation of a global digital management solution that combines design strategies, methodologies and competencies for the realisation of a product consisting of an integrated platform of disruptive technologies.*

*c) 1 position cofunded by Weave srl*

*Design of a technical-organisational model that support organisational ecosystems in the development of technologies, methodologies and organisational models enabling knowledge management processes in HR.*

*d) 1 position cofunded by OK Appalti srls*

*Definition of a methodology for digitising commercial management processes and customer management system procedures.*

*e) 1 position cofunded by Zero DD scarl*

*Definition of methods and approaches based on Business Process Management to enable the analyst to execute processes using low-code and zero-code development platforms.*

*f) 1 position cofunded by Famas System S.p.A.*

*Study and definition of new techno-organisational models of 'Interactive City', defined as a smart city/community model based on an ecosystem of dynamic clusters using*



	<p><i>digital technologies and data to support decision-making and improve quality of life.</i></p> <p><i>g) 1 position cofunded by Resiltech srl</i> <i>Study and definition of techno-organisational models for the integrated management of cybersecurity issues that characterise modern networked critical infrastructures.</i></p> <p><i>h) 2 positions cofunded by Deloitte Consulting srl</i> <i>h1. Study and analysis of new data governance processes and methodologies for organising corporate data in order to ensure effective and efficient information management.</i> <i>h2. Study and analysis of Deep Learning and Machine Learning tools for time series analysis applied to sales forecasting.</i></p> <p><i>i) 1 position cofunded by Nardò Technical Center</i> <i>Design and development of a 'custom-AI Autonomous Planner' for the integration of automation and human decision-making in the automotive sector.</i></p> <p><i>j) 1 position cofunded by E4 Computing Engineering S.p.A.</i> <i>Study and analysis of the HPC Cloud domain, with a focus on security aspects.</i></p> <p><i>k) 1 position cofunded by Ready2Use srl</i> <i>Study and analysis of methodologies for secure RPA/IPA applications and prevention of cyber attacks using these techniques.</i></p> <p><i>l) 1 position cofunded by Altea 365 srl</i> <i>Study and design of new 'Cybersecurity and Cyber threat intelligence' frameworks.</i></p> <p><b>Research Area 5: i-STORE Centre, Group 1 (5 positions)</b></p> <p><i>a) 1 position cofunded by Commedia s.r.l.</i> <i>Innovative ICT solutions based on enabling technologies such as Distributed Ledger Technologies, blockchain and IoT to contribute to the enhancement of various domains recognized by the public domain (logistics, smart cities and smart communities).</i></p> <p><i>b) 1 position cofunded by Gematica s.r.l.</i> <i>Innovative ICT systems based on innovative low cost and low power technologies (e.g., BLE or UWB) to facilitate simultaneous transmission of positioning and telemetry data by using AI techniques and IoT.</i></p> <p><i>c) 2 positions cofunded by Inmatica S.p.A.</i> <i>c1. Design and development of innovative ICT solutions based on the combined use of IoT technologies (wearable and environmental) with artificial intelligence algorithms for detecting and tracking football players, with the aim of supporting the automatic calculation of specific measures/parameters through the definition of Digital Twin models applied to the Sport Business</i></p>
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c2. Design and development of innovative solutions based on IoT-enabling technologies and techniques called "Symbiotic Artificial Intelligence" for the creation of new Artificial Intelligence algorithms to support collaborative platforms for Public Administrations and citizens.

d) 1 position cofunded by Parsec 3.26

Innovative IoT solutions to monitor, support, improve and promote sustainable and digital improvements in smart homes and smart buildings domains through the use of new approaches based on Edge Computing, Artificial Intelligence and Blockchain.

#### **Positions funded by external companies**

#### **Research Area 6: i-STORE Centre, Group 2 (3 positions)**

a) 2 positions funded by IIT

a1. Innovative ICT systems to support safe driving in the automotive domain to detect driver physiological and biometric data and correlate by exploiting the combined use of advanced sensors, Artificial Intelligence and Edge Computing applied in the IoT domain.

a2. Innovative solutions based on Edge Computing and AI for enabling Personal IoT in Healthcare applied to the Personal Healthcare and Well-being sector through, but not limited to, Anomaly Detection and Deep Learning techniques.

b) 1 position funded by CNR-ISASI

Innovative approaches based on the application of Deep Learning techniques to the Hyperspectral Imaging (HSI) classification domain through the building of deep computational models that deal with few labeled samples.

#### **Research Area 7: T&T (2 positions)**

a) Renewable energies for Hydrogen production

b) Renewable energies and energy efficiency

#### **Research Area 8: Cortus (2 positions)**

a) Study of Analog Front-ends for NB-IoT / Bluetooth reconfigurable receivers.

The research activity foresees the identification of circuit architectures of wireless receivers capable of guaranteeing a reduction in power consumption. Low power consumption is a crucial aspect for portable devices as it can increase battery life. For this reason, attention is paid on custom solutions in CMOS integrated technology. At the same time, the receiver must guarantee a certain flexibility that allows it to accommodate multiple communication standards, such as NB-IoT and Bluetooth. This flexibility must be achieved by sharing the hardware as much as possible with regard to the types of receivers, in order to also reduce the area occupation and, consequently, the manufacturing costs.



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	<p><i>b) Study of signal processing algorithms for NB-IoT / Bluetooth reconfigurable receivers.</i> <i>The activity concerns the study of NB-IoT and Bluetooth standards. The goal is to evaluate in particular which functions and circuit blocks that make up the digital back-end can be shared to save hardware and power and how to optimize processing to improve overall efficiency. To this end, it is necessary to model fundamental functions of the reception chain with a programming language as close as possible to the machine level.</i></p> <p><b><u>Positions reserved to personnel from highly qualified companies (industrial Ph.D.) or research institutions</u></b> <i>1 position reserved to lecturer from Al Akhawayn University, Ifrane (Morocco)</i></p>
<p><b><u>Tematiche di ricerca</u></b></p> <p><i>Research themes</i></p>	<p>Negli ultimi anni la complessità dei prodotti è aumentata esponenzialmente in tutti i campi dell'ingegneria, al fine di migliorare caratteristiche e/o funzioni di prodotti esistenti (e.g. il crescente impiego di elettronica in ambito automotive), per creare prodotti innovativi (dispositivi e sensori organizzati in reti, velivoli autonomi, smart materials, etc.) o nuovi sistemi di produzione e/o distribuzione di beni e servizi (smart grids, smart factories, smart cities, ecc.). Il Corso di Dottorato sviluppa le competenze necessarie alla gestione di un tale livello di complessità per la progettazione e l'analisi di prodotti o sistemi che non nascono più dalla giustapposizione di saperi, ma dall'interazione di culture tecnico-scientifiche diverse in ambiti multidisciplinari.</p> <p>Lo spettro di competenze all'interno del Collegio, i cui membri vantano contatti sia con realtà produttive del territorio che con grandi compagnie nazionali e multinazionali, nonché collaborazioni con enti di ricerca nazionali ed esteri, consente di affrontare molteplici problemi complessi di natura funzionale, progettuale e produttiva.</p> <p>Viene quindi formato personale con un alto livello di qualificazione, una solida preparazione in diverse branche dell'ingegneria e delle scienze di base e una chiara conoscenza dei problemi legati all'innovazione scientifica e tecnologica. Durante il triennio l'allievo segue corsi di formazione generale e applicativi e svolge una ricerca autonoma, calata in un ambito ampio, inter- e multi-disciplinare, maturando competenze individuali da spendere in contesti articolati e complessi per lo sviluppo di soluzioni originali ad alto tasso di innovazione tecnologica.</p> <p><i>In the last few years, system complexity has been growing exponentially, with the objective of improving characteristics and functions of existing products (e.g. automotive industry increasingly</i></p>



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	<p><i>relying on ICT), delivering new products and services (distributed systems of sensors, possibly operating in networks, UAV's, smart materials, etc.), and novel systems for production and distribution of goods and services (smart grids, smart factories, smart cities, etc.). The Ph.D. course aims at developing those capabilities necessary for managing this deep level of interaction between diverse technical backgrounds. The design process no longer hinges on a sequential process, with different technical aspects considered one at the time. Nowadays, new opportunities for innovation are created by the interaction between different fields.</i></p> <p><i>A wide spectrum of diverse know-hows within the Ph.D. program Committee, contacts with industries and a network of national and international collaborations with universities and research centers allows challenging our Ph.D. students on various problems of different nature in different technical frameworks, related to basic research, design, and production.</i></p> <p><i>At the end of the program a highly qualified expert will be formed, with a solid background, derived from the courses that he/she will be exposed to during the three years program. The courses cover engineering disciplines and applied sciences. In the end, a good understanding of problems and challenges that characterize scientific and technological innovation is expected. The candidate will develop an autonomous research pattern in a wider multidisciplinary context, within which he/she will be able to apply his/her expertise, in order to develop original and technologically innovative solutions to old and new problems.</i></p>
<p><b>Requisiti di partecipazione</b></p> <p><i>Requirements for admission</i></p>	<p>- Laurea quinquennale (ante DM 509/1999) o Laurea Specialistica/Magistrale (ex DM 509/1999 e DM 270/2004) nelle seguenti discipline:</p> <p>LM-3 Architettura del paesaggio  LM-4 Architettura e ingegneria edile-architettura  LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale)  LM-6 Biologia  LM-7 Biotecnologie agrarie  LM-8 Biotecnologie industriali  LM-9 Biotecnologie mediche, veterinarie e farmaceutiche  LM-11 Scienze per la conservazione dei beni culturali  LM-12 Design  LM-13 Farmacia e farmacia industriale  LM-16 Finanza  LM-17 Fisica  LM-18 Informatica  LM-19 Informazione e sistemi editoriali  LM-20 Ingegneria aerospaziale e astronautica  LM-21 Ingegneria biomedica  LM-22 Ingegneria chimica  LM-23 Ingegneria civile  LM-24 Ingegneria dei sistemi edilizi</p>



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	<p>LM-25 Ingegneria dell'automazione LM-26 Ingegneria della sicurezza LM-27 Ingegneria delle telecomunicazioni LM-28 Ingegneria elettrica LM-29 Ingegneria elettronica LM-30 Ingegneria energetica e nucleare LM-31 Ingegneria gestionale LM-32 Ingegneria informatica LM-33 Ingegneria meccanica LM-34 Ingegneria navale LM-35 Ingegneria per l'ambiente e il territorio LM-40 Matematica LM-43 Metodologie informatiche per le discipline umanistiche LM-44 Modellistica matematico-fisica per l'ingegneria LM-48 Pianificazione territoriale urbanistica e ambientale LM-49 Progettazione e gestione dei sistemi turistici LM-53 Scienza e ingegneria dei materiali LM-54 Scienze chimiche LM-56 Scienze dell'economia LM-58 Scienze dell'universo LM-60 Scienze della natura LM-66 Sicurezza informatica LM-69 Scienze e tecnologie agrarie LM-70 Scienze e tecnologie alimentari LM-71 Scienze e tecnologie della chimica industriale LM-72 Scienze e tecnologie della navigazione LM-73 Scienze e tecnologie forestali ed ambientali LM-74 Scienze e tecnologie geologiche LM-75 Scienze e tecnologie per l'ambiente e il territorio LM-76 Scienze economiche per l'ambiente e la cultura LM-77 Scienze economico-aziendali LM-79 Scienze geofisiche LM-82 Scienze statistiche LM-83 Scienze statistiche attuariali e finanziarie LM-91 Tecniche e metodi per la società dell'informazione LM Sc. Mat. Scienze dei materiali LM Data Data science LM-53. Ingegneria dei materiali 3/S (specialistiche in architettura del paesaggio) 4/S (specialistiche in architettura e ingegneria edile) 6/S (specialistiche in biologia) 7/S (specialistiche in biotecnologie agrarie) 8/S (specialistiche in biotecnologie industriali) 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche) 19/S (specialistiche in finanza) 20/S (specialistiche in fisica) 23/S (specialistiche in informatica) 24/S (specialistiche in informatica per le discipline umanistiche) 25/S (specialistiche in ingegneria aerospaziale e astronautica) 26/S (specialistiche in ingegneria biomedica) 27/S (specialistiche in ingegneria chimica) 28/S (specialistiche in ingegneria civile) 29/S (specialistiche in ingegneria dell'automazione) 30/S (specialistiche in ingegneria delle telecomunicazioni) 31/S (specialistiche in ingegneria elettrica) 32/S (specialistiche in ingegneria elettronica)</p>
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	<p>33/S (specialistiche in ingegneria energetica e nucleare) 34/S (specialistiche in ingegneria gestionale) 35/S (specialistiche in ingegneria informatica) 36/S (specialistiche in ingegneria meccanica) 37/S (specialistiche in ingegneria navale) 38/S (specialistiche in ingegneria per l'ambiente e il territorio) 45/S (specialistiche in matematica) 48/S (specialistiche in metodi per l'analisi valutativa dei sistemi complessi) 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria) 54/S (specialistiche in pianificazione territoriale urbanistica e ambientale) 61/S (specialistiche in scienza e ingegneria dei materiali) 62/S (specialistiche in scienze chimiche) 64/S (specialistiche in scienze dell'economia) 66/S (specialistiche in scienze dell'universo) 68/S (specialistiche in scienze della natura) 80/S (specialistiche in scienze e tecnologie dei sistemi di navigazione) 81/S (specialistiche in scienze e tecnologie della chimica industriale) 82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio) 83/S (specialistiche in scienze economiche per l'ambiente e la cultura) 84/S (specialistiche in scienze economico-aziendali) 90/S (specialistiche in statistica demografica e sociale) 91/S (specialistiche in statistica economica, finanziaria ed attuariale) 92/S (specialistiche in statistica per la ricerca sperimentale) 100/S (specialistiche in tecniche e metodi per la società dell'informazione) 103/S (specialistiche in teorie e metodi del disegno industriale)</p> <p>- Altro titolo dichiarato equivalente o equipollente ai sensi della normativa vigente per la partecipazione ai pubblici concorsi. - Titolo analogo conseguito presso Università straniere legalmente riconosciute.</p> <p><i><b>For foreign students:</b> Degree equivalent to a Master in Engineering or Master of Science, equivalent to one of the Master Degree titles listed above recognized under the Italian rule of law.</i></p>
<p><b><u>Modalità di selezione</u></b></p>	<p>Valutazione titoli, progetto di ricerca e colloquio</p> <p><b><u>Valutazione dei titoli</u></b> (max 10/100):</p> <ul style="list-style-type: none"> <li>- max 6 punti per il curriculum studiorum (saranno valutati i seguenti elementi: esami e voti, incluso voto di laurea, se disponibile, durata del percorso formativo);</li> <li>- max 2 punti per percorsi formativi post-laurea, master e altri titoli conseguiti;</li> <li>- max 2 punti per pubblicazioni scientifiche pertinenti alle tematiche del dottorato.</li> </ul> <p><b>I candidati al concorso dovranno, pertanto, allegare obbligatoriamente nella voce “altri titoli” presente nella procedura telematica e pena la non valutazione, la documentazione</b></p>



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*Selection procedure*

**attestante il proprio percorso di studi, ivi comprese le informazioni relative alla durata dei relativi Corsi.**

*Evaluation scores for CV and education (max 10/100)*

- 6 points max for master degree (the selection committee will evaluate the exam list and marks, mark for the final degree, if applicable, duration of the course);
- 2 points max for other courses completed;
- 2 points max for scientific publications on topics relevant for the Ph. D. course.

**Progetto di ricerca (max 45/100)**

(massimo 20 000 caratteri – spazi inclusi – su una tematica ad autonoma scelta del candidato, all'interno degli obiettivi formativi e ambiti disciplinari del dottorato)

Al colloquio sono ammessi i candidati che abbiano riportato nella valutazione del progetto un punteggio minimo di 30.

*Research project (20 000 characters maximum – including spaces – on a topic relevant for the Ph.D. research areas and themes).*

*Admission to the oral exam if the candidates obtain a mark for the research project equal or higher than 30.*

**Colloquio (max 45/100)**

*Oral exam (max 45/100)*

Il colloquio sarà volto a verificare la preparazione del candidato e l'attitudine alla ricerca su tematiche oggetto del dottorato.

Durante il colloquio, per tutti i candidati, italiani e stranieri, verrà valutata la conoscenza della lingua inglese. La valutazione della conoscenza della lingua inglese prevede l'assegnazione di un punteggio massimo pari a 10/100 da ricomprendersi nel punteggio massimo conseguibile al colloquio.

Il colloquio si considera utilmente superato ove il candidato riporti un punteggio pari ad almeno 30/100.

**Il colloquio sarà svolto per tutti i candidati ammessi in modalità telematica mediante la piattaforma Microsoft TEAMS.** Nell'ipotesi di ammissione al colloquio il candidato riceverà un invito dalla Commissione a far parte del gruppo creato tramite la piattaforma indicata. Anche a tal fine, il candidato è tenuto obbligatoriamente a fornire già nel c.v. allegato alla domanda di partecipazione al concorso un valido account mail, associato a un'utenza Microsoft valida, a installare su un proprio dispositivo il software della piattaforma indicata, e a dotarsi di una webcam



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	<p>che ne consenta l'identificazione prima della prova orale.</p> <p><i>The oral exam is aimed at evaluating the technical background of the candidate and his/her potential on the research topics of the course.</i></p> <p><i>Proficiency in the use of English language is evaluated at this stage. A maximum of 10 points is awarded for English proficiency, within the total score for the oral exam.</i></p> <p><i>To pass the interview the candidates need to achieve a score equal to or greater than 30 points.</i></p> <p><i>The oral exam will take place for all shortlisted candidates by means of a teleconference system based on the Microsoft TEAMS platform. After being shortlisted, the selected candidates will receive an invitation to a "team" created for the platform. It is thus required for admission that the candidates indicate within the CV an e-mail address associated to a valid Microsoft account, install the software necessary for the call. A webcam is required for the identification procedure, prior to the oral exam.</i></p>
<p><b><u>Lingua nella quale possono essere svolte le prove</u></b></p> <p><i>Language for project and oral exam</i></p>	<p>Il curriculum e il progetto di ricerca possono essere presentati in italiano o in inglese (per candidati italiani e stranieri). Il colloquio si svolgerà in italiano, con verifica delle conoscenze della lingua inglese, per i candidati italiani; per quelli stranieri il colloquio si svolgerà in inglese</p> <p><i>Both Italian and foreign candidates can write their CV and research project in Italian or English language. The oral exam will be in Italian for Italian candidates; adequate knowledge of English will be evaluated. The oral exam will be in English for foreign candidates;.</i></p>
<p><b><u>Modalità di svolgimento del colloquio</u></b></p> <p><i>Method of conducting the interview</i></p>	<p><b><u>Il colloquio sarà svolto per tutti i candidati ammessi in modalità telematica</u></b></p> <p>Nell'ipotesi di ammissione al colloquio il candidato riceverà un invito dalla Commissione a far parte del gruppo creato tramite la piattaforma indicata. Anche a tal fine, il candidato è tenuto obbligatoriamente a fornire già nel c.v. allegato alla domanda di partecipazione al concorso un valido account mail, associato a un'utenza Microsoft valida, a installare su un proprio dispositivo il software della piattaforma indicata e a dotarsi di una webcam che ne consenta l'identificazione prima della prova orale.</p> <p><b><u>The interviews will be held in teleconference mode by means of Microsoft TEAMS platform</u></b></p>



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	<p>After being shortlisted, the selected candidates will receive an invitation to a “team” created for the platform. It is thus required for admission that the candidates indicate within the CV an e-mail address associated to a valid Microsoft account, install the software necessary for the call. A webcam is required for the identification procedure, prior to the oral exam.</p>
<p><b><u>Date in cui saranno rese le informazioni sullo svolgimento delle prove selettive</u></b></p> <p><i>Dates of the selective tests</i></p>	<p><b><u>In data 7 Settembre 2022</u></b> saranno rese note, nella pagina <a href="https://www.unisalento.it/didattica/dottorati">https://www.unisalento.it/didattica/dottorati</a>, le seguenti informazioni:</p> <ul style="list-style-type: none"> <li>- la data di pubblicazione dell’elenco degli ammessi al colloquio;</li> <li>- la data di svolgimento del colloquio.</li> </ul> <p><b><u>On September 7, 2022</u></b> the following information will be announced on the page <a href="https://www.unisalento.it/didattica/dottorati">https://www.unisalento.it/didattica/dottorati</a>:</p> <ul style="list-style-type: none"> <li>- date of publication of the list of those admitted to the interview;</li> <li>- the date on which the interview will be held.</li> </ul>
<p><b><u>Sito web di Ateneo in cui reperire il bando di ammissione al concorso, il decreto di nomina Commissione e le graduatorie definitive della selezione approvate con Decreto rettorale</u></b></p> <p><i>Website for information</i></p>	<p>Sito di Ateneo: <a href="http://www.unisalento.it">www.unisalento.it</a> – sezione Bandi e concorsi – concorsi – Ricerca – Bandi per dottorati di ricerca</p> <p>sito web del Dipartimento di Ingegneria dell’Innovazione: <a href="https://www.dii.unisalento.it/home_page">https://www.dii.unisalento.it/home_page</a></p> <p><i>University website:</i> <a href="http://www.unisalento.it">www.unisalento.it</a> – section “Bandi e concorsi – concorsi – Ricerca – Bandi per dottorati di ricerca”</p>
<p><b><u>Responsabile amministrativo del procedimento di selezione</u></b></p> <p><i>Administrative staff for the selection process</i></p>	<p>Dott. Andrea Cuna – tel. 0832/299232 - email: <a href="mailto:andrea.cuna@unisalento.it">andrea.cuna@unisalento.it</a></p> <p><a href="mailto:master.dottorati@unisalento.it">master.dottorati@unisalento.it</a></p>