



**UNIVERSITÀ
DEL SALENTO**

**RIPARTIZIONE DIDATTICA E
SERVIZI AGLI STUDENTI**

AREA POST LAUREA

UFFICIO MASTER E DOTTORATI

**Centro Congressi
Campus Ecotekne
S.P. 6, Lecce- Monteroni**
Tel. +39 832 - 299041 –
299210 - 299232 - 299238
master.dottorati@unisalento.it

(Annex 1)

D.R. n. 419, on 12/06/2020

Public call for applications for the competitive selection procedure for admission to the 36th Cycle Ph.D. Research Course with administrative seat at the *Università del Salento* (University of Salento)

This translation cannot be used for legal purposes and is only meant to provide information in English on the call for applications

Applications for the competitive selection procedure must be made within and not after **13:00 (Italian time) on 13 July 2020**.

There is no contribution to participate in the competition.

(approved by Rector's decree. n. 419, on 12/06/2020)

Article 1) Implementation

The call for applications for the competitive 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 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);
- Scienze del Patrimonio Culturale (Sciences for Cultural Heritage, see attachment L);
- Scienze e Tecnologie Biologiche ed Ambientali (Biological and environmental sciences and technologies, see attachment M);



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Article 2) Admission Requirements

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 an equivalent foreign degree recognized as equivalent on the basis of international agreements or approved in advance by the Academic Board, for the purpose of the admission to the Ph.D. research course, and on the basis of national legislation. It is possible to apply for more than one curriculum (see article 1 for a list of the curricula).

The detailed notes for each Ph.D. research course (Ph.D. research course descriptions), in attachment to this call for applications (Attachments A-M) 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 **October 31st, 2020** (or by a different date that the MIUR (Ministry of Education, Universities and Research) may eventually establish in the case of extension of the same due to the delay in the start of the course activation procedures for the 36th cycle).

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 addresses amministrazione.centrale@cert-unile.it and master.dottorati@unisalento.it.

Applicants who expect to get their degree by 31st October 2019 will be admitted conditionally to the competitive selection procedure (or within a different date possibly extended by the MIUR- Ministry of Education, Universities and Research).

For the places announced and reserved for employees of affiliated public and private bodies, those awarded positions must be employees of the same Body on the date of acceptance of the post at the end of the Rectoral measure approving the ranking.

Even if successful in their application, Applicants **will lose any eventual right to register on the Ph.D. research course if they do not present the required documentation and certificates by, and no later than 31st October 2019.**

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-M) – 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



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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 only one specific research theme** 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.

Applicants who do not apply for positions on a Course with a grant/scholarship subject to a specific research theme (i.e. for a position with an apprenticeship contract), take part exclusively in the competitive selection procedure for general research positions (with or without a grant/scholarship). Applicants who wish to apply for positions with a grant/scholarship subject to a specific research theme, will have to carry out research on that same theme, if the grant/scholarship is awarded, and in full accordance with the terms of the agreement stipulated with the external funding bodies, and accepting any obligations set out in the same agreement.

Grants/scholarships subject to a specific research theme may amount to a different sum than the standard one established for general research theme scholarships by D.M. (ministerial decree) no. 40/2018.

Indication of any different amount of the published grants/scholarships is contained in the Ph.D. research course descriptions of the individual Ph.D. research courses attached to this call for applications.

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 lecturer of the Al Akhawayn University in Ifrane (Morocco).

The PhD research course in Biological and Environmental Sciences and Technologies also includes two positions reserved for foreign students within Departments of Excellence.

The notice of the opening of the competitive selection process for admissions also provides for the possibility of competing for n. 1 research grant.

Each PhD course also provides for n. 1 place reserved exclusively for academic staff of the Al Akhawayn University in Ifrane (Morocco) who will apply exclusively for the reserved ranking that concerns them.

The form of the Doctoral Course in Biological and Environmental Sciences and Technologies also includes n. 2 places reserved exclusively for foreign students within the Departments of Excellence (topics n. 1 and 2).



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Article 3) Application Procedure

Applications for the competitive selection procedure must be made within and not after 13:00 (Italian time) on 13 July 2020.

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) Go to the portal (authentication - LOGIN) on the banner "Accedi al Portale degli studenti" and click on "CONCORSI/IMMATRICOLAZIONI – TEST DI AMMISSIONE – ISCRIZIONE CONCORSO."

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

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

It should be noted that for competitive selection procedures that include positions with a general research theme and places with a specific research theme, the choice of the type of position for which you intend to apply must be made in the drop-down MENU under "ADMINISTRATIVE CATEGORY".

The online procedure for the submission of the application for participation in the competitive selection procedure will be available at <https://studenti.unisalento.it> from **15:00 (Italian time) on 22 June 2020.**

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 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)



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- 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;
- 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);
- curriculum and lines of research (only for the Ph.D. research course in "Human and Social Sciences"): linea_ricerca_Applicant's surname.
- letter of presentation (for the doctoral course in "Physics and Nanosciences": lettera_presentazione_Applicant's surname;

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.

It will also allow the Applicant to more easily modify / replace documents attached to the electronic application in the event that it is necessary to integrate / modify the application before the deadline expires.

It is possible, in the case of incomplete applications or errors in the same to request the cancellation of the application or integration / modification of documents strictly according to the timescales and methods in indicated in detail in the following article 5 of this announcement and using the attached formats (annex 2, 3 and 4)

Cancellation, Supplementation / correction can occur, indeed, exclusively in paper form according to the methods strictly and precisely indicated in the following article 5 of this call for applications and using the attached forms (annexes 2, 3 and 4).

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 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.



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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 October 31st 2020, 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 (e.g. notifications in the event of Applicants dropping out and those below them in the rankings being moved up, or the awarding of extra grants/scholarships for innovative Ph.D. research projects) and subsequently, in the event of a successful application for admission to the Ph.D. research course, the official notification on the part of the relevant office and the Coordinator;

The Ph.D. research course descriptions for some competitive selection procedures provide for the interview to be conducted exclusively via electronic means due to the ongoing COVID-19 epidemiological emergency from. In such cases the e-mail address indicated by the candidate in their CV will be used by the admissions board of the competitive selection procedure to send an invitation to the interview which will be carried out through MICROSOFT TEAMS or other telematic platform.

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 **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;

3. documentation certifying that the Applicant meets the qualifications / experience / activities



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- 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;
4. 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.
 5. 4. the attesting documentation

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

The application form, to be presented according to the above-mentioned online procedure, cannot be corrected / supplemented using the same procedures that were used for original submission.

N.B. Applicants are invited, therefore, to check the attached documentation very carefully before completing the online application.

The additions / changes to the documentation already presented will be allowed, only within the deadline for submitting the electronic application indicated in the previous Article 3. in the following ways:

1) **until 1.00 pm on the fourth day before the deadline for submitting the application**, the candidate can request by means of a form (of which a facsimile is attached as Annex 2) addressed to the person in charge of the procedure, sent to the address amministrazione.centrale@cert.unile.it with a valid identity document attached, for an application already submitted to be cancelled in order to then proceed with a new submission.

The submitted application will be definitively cancelled by the administrative manager of the procedure, who will communicate the same by email, and can no longer be recovered in any way. The candidate must therefore re-submit it in full to participate in the selection;

2) **from 1.00 pm on the fourth day up until the deadline**, the candidate can use the appropriate forms.

The form and the relative attachments must be sent by e-mail by the Applicant using their own email address and attaching a valid identity document to the registered email (PEC) address: amministrazione.centrale@cert-unile.it.

The subject of the email must be the following: **"istanza di integrazione"** [i.e. request for supplementation] **or "istanza di rettifica"** [i.e. request for correction] **to the application for**



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participation in the competitive selection procedure presented by Mr/Ms _____ for the Ph.D. research course in"".

In the event that the Applicant makes various supplementations or corrections, only the last supplementation / correction received at the administration's registered PEC email address will be taken into consideration.

If the supplementations / corrections concern applications to more than one Ph.D. research course, separate emails regarding the supplementation or correction must be sent to each Ph.D. research course for which the Applicant has applied.

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.*"

In case of admission to the Ph.D., successful Applicants in possession of such qualifications awarded outside Italy must submit, within sixty (60) 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:



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- 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 by the deadline of 31st October 2020;
- 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; 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.
- d) 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 or without an accompanying identity document, 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).

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.

Candidates are required to verify admission to the interview on the date established for the presentation of the results of the research project and, in the event that the interview is scheduled electronically, they are required to connect on the day and at the time indicated to do the interview via the MICROSOFT TEAMS platform.

During the interview, the candidate must guarantee the use of a webcam to allow his / her selection to be identified by the Admissions board and must connect in the manner prescribed by the Commission for the oral examination.

For identification purposes, and under penalty of exclusion from the selective procedure, each candidate is required, before the interview begins, to allow the Commission to identify him, showing the same Identity document already sent, in copy, as an attachment to the application.

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

As regards, Applicants excluded from the competitive selection procedure for the reasons referred to in the previous paragraph, the administration will proceed, compatibly with the timing of the competitive selection procedure, to give them written notice, by email, to the address indicated by them in the curriculum vitae that they attached to the application form.

Article 9) Procedure for competitive selection of Applicants



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The competitive selection of Applicants will be carried out according to the timetable which will be published on the University of Salento website for each of the competitive selection procedures (see attachments A-M), at the following link “Bandi e Concorsi/Concorsi/Ricerca/Bandi per Dottorati di Ricerca”.

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 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.

The descriptions of some of the Ph.D. research courses provide for the mandatory conduct of the interview electronically due to the ongoing COVID-19 epidemiological emergency.

For other courses, on the other hand, the interview is scheduled to take place normally, however the administration reserves the right, in such cases, in the event that the epidemiological situation should dictate it, to modify at least three days before the interview, how it is carried out, which in this case will be electronically.

Candidates residing or domiciled abroad or all candidates who demonstrate, by providing adequate motivation, the impossibility to go physically on the date scheduled for the interview, will be allowed to request a video interview.

For this purpose, the e-mail address indicated by the candidate in the c.v. will be used for setting up the interview.

In this case, the candidate must request it in writing, using the appropriate form attached to this announcement (Attachment 5), which must be sent to the registered e-mail administration.centrale@cert-unile.it, no later than the fourth day prior to the date scheduled for the interview, stating the reasons, indicating the email to be contacted and attaching a copy of an identity document that will allow identification in the video call session.

The telematic interview through the MICOSOFT TEAMS platform will be held on the same day set for the PhD interview according to the calendar published at the same time as the results of the evaluation of the research project.

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.

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.



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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 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 M 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, 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, 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. research course.

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 outlined in letter b) of the preceding paragraph.

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 M).

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 but at the same location and on the same date.

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



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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, the he or she will not be admitted to the final rankings and consequently will not be in competition for the allocation of positions.

If permitted by the Ph.D. research course descriptions, attached to this call for applications, there is the possibility, only for Applicants living or residing outside Italy, on request, to do the interview via a video call using "MICROSOFT TEAMS".

For positions reserved for employees of entities, companies or academic staff 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.

For the place reserved under the agreement with HiQ Nano, taking into account the specificities of the Project from which the related funding has originated, the scores to be assigned for the various tests are contained in the course description for the PhD in "Materials and Materials Engineering Structures and Nanotechnologies" and are different from the standard ones. Candidates for this place in the context of the agreement with HiQ Nano will participate only for the reserved ranking unless they expressly indicate in the application the desire to participate also in the general themed position.

In this case, the Applicant must make a specific request in writing using the dedicated form attached to this call for applications, and send it by email sent to amministrazione.centrale@cert-unile.it **within and no later than four days before the date set for the interview**, giving his / her reasons for this request, and indicating at the same time a valid account and attaching a copy of an identity document enabling him or her to be identified during the call.

The interview will be held on the same day as that fixed for the Ph.D. research course interview.

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 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.

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



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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 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 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.

Article 10) Innovative Ph.D. research courses and regional grants

The number of positions and scholarships published with the aforementioned provision may be the subject of a subsequent extension due to the University's participation in competitive bids or public calls for tenders announced by public or private bodies, including:

- a) public notice announced by MIUR (Ministry of Education, Universities and Research) directorial decree concerning "Dottorati di ricerca innovativi a caratterizzazione industriale" (Innovative Ph.D.s of an industrial character) aimed at the promotion of Ph.D. training initiatives with high relevance to industry and the involvement of companies, through the funding of Ph.D. grants/scholarships in the *Programma Operativo Nazionale Ricerca e Innovazione* (PON RI) (National Operational Course for Research and Innovation) 2014-2020 - Priority axis I "Investments in Human Capital" - Action I.1 which provides for this possibility, for the academic year. 2020/2021 - 36th cycle.
The award of the relative scholarships will be made using the general ranking of the competitive selection procedure in the order of the same according to criteria that will be specified later in compliance with the call and ministerial regulations.
- b) Call of the Sanpalo Onlus Foundation for "*Dottorati e/o Progetti di ricerca in materia umanistica*" (Ph.D. and/or research projects in in the humanities) for the financing of scholarships to the amount of € 70,000, to be assigned, in the event of financing, to Applicants in possession of the requirements stipulated in the call for applications issued by the aforementioned Foundation).
- c) regional public notice no. 2/2020 which finances additional scholarships for PhD courses.



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The procedures for the allocation of the related scholarships will be made on the basis of the rules contained in the same calls, using the rankings of the competitive selection procedure for the 36th cycle of the Ph.D. research courses referred to in this call for applications.

Article 11) Enrollment on the Ph.D. research course

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 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

To enrol on the course all Winning Applicants (including Winners of grants/scholarships) will have to pay, within the peremptory 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.

Article 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 the Director of the Graduate School according to the order of the rankings approved by Rector's decree.

In such a case, the new Winning Applicant who has been moved up in the rankings will have a period of five days from individual notification to proceed with the acceptance of his/her position.

Where the forfeiture or renunciation of the position on the Ph.D. research course occurs at a date after the beginning of the first year of the Course, but no later than 31st December of the same year, except in the event of additional positions with grants/scholarships being financed by external bodies or deriving from the participation of the University of Salento in competitive selection procedures (e.g. innovative Ph.D. research courses) for which it will be exceptionally possible to proceed even after this deadline depending on the timing of the publication of the relative rankings.

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 31th 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) decree of January 25, n. 40/2018.

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).

For positions with scholarships financed under specific European Union and international collaboration projects activated within the framework of Ph.D. research courses, the basic amount of the ministerial scholarship can be increased in order to guarantee organizational methods that take into account the characteristics of the individual projects, in accordance with the combined provisions of articles 8, paragraph 5, of DM (ministerial decree) 8 February 2013, no. 45 and of article 11, paragraph 2, of the Ph.D. research courses regulations of the University of Salento issued by D.R. (Rector's decree) n. 509/2019.

Grants/Scholarships of a different amount than the basic one, where foreseen, are preventively identified in the Ph.D. research course descriptions attached to this call for applications.

The amount of the research grant established for the doctoral course in "Physics and Nanosciences" is that established by the legislation for research grants and is subject to the regulation on research grants at an economic and social security level.

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 18 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



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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. 509/2019.

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, in accordance with the provisions of article 11, paragraph 11, of the University Regulations in force regarding Ph.D. research courses.

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 € 19.000,00
€ 140,00	Students with ISEE between € 19.001,00 and € 38.000,00
€ 160,00	Students with ISEE equal or superior to € 38.001,00

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%.



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Art. 17 - Intellectual property of research results and publications

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” (Doctor of Philosophy – Ph.D.)

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” (Doctor of Philosophy – Ph.D.) 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. 509/2019.

The procedures relating to the composition of the board for the final exam, its composition and the methods of carrying out the final exam are contained in articles 19 and 20 of the aforementioned university Ph.D. research course regulations.

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” (Doctor of Philosophy – Ph.D.) 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. 509/2019).

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, Viale Gallipoli, 49 - 73100 Lecce.

Article 23) Responsible parties for the application and competitive selection procedure

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

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

One can also contact the *Ufficio Master e Dottorati* at the following telephone numbers ++39 (0)832/9232-9234-9238-9041; e-mail addresses: master.dottorati@unisalento.it;

The referents for the IT procedure (exclusively for the online submission of the application form for the competitive selection procedure) are Roberta Buttazzo (tel. ++39 (0)832/299238) roberta.buttazzo@unisalento.it and Anna Micolano (++39 (0)832/299210) anna.micolano@unisalento.it.



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Article 24) Final Provisions

This call for applications will also be advertised by electronic means on the site 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.

F.to The Rector
(Prof. Fabio POLLICE)



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Allegato (Annex) 2)

SUBJECT: Request to cancel the application submitted by _____ for the PhD in
“.....” – 36th cycle.

To the person responsible for the admissions procedure

The undersigned, born at _____, resident in _____, tel. _____,
email _____, having applied to participate in the competitive selection procedure for
admission to the PhD Course in _____, approved by D.R (rector's
decree) and needing to replace documents what has been stated or attached

REQUESTS

that he or she is allowed to cancel the application, in accordance with the provisions of article 5 of
the call for applications for the competitive selection procedure and in the manner specified therein,
the application to participate in the competitive selection procedure in question already completed
online.

Date

Signature

N.B. A valid identity document must be attached to this form, to be completed according to the terms of article 5 of the call
for applications for the competitive selection procedure.
This form must be sent to the registered email (PEC) address of the amministrazione.centrale@cert-unile.it within the
deadline of the call for applications.



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Allegato (Annex 3)

SUBJECT: Request for supplementation of the application submitted by _____ for the PhD in “.....” – 36th cycle.

To the person responsible for the admissions procedure

The undersigned, born at _____, resident in _____, tel. _____, email _____, having applied to participate in the competitive selection procedure for admission to the PhD Course in _____, approved by D.R (rector's decree) and needing to supplement what has been stated or attached

REQUESTS

that he or she is allowed to supplement, in accordance with the provisions of article 5 of the call for applications for the competitive selection procedure and in the manner specified therein, the application to participate in the competitive selection procedure in question already completed online.

With this note, pursuant to the provisions of article 5 of the call for applications for the competitive selection procedure which he / she has read carefully and in its entirety and according to the procedures specified therein:

- to supplement the application for participation in the competitive selection procedure in question already completed online with the following documentation that is attached and which is summarized below:

- 1) _____
- 2) _____

Or alternatively,

- Declares that he or she provides the following clarifications to that which is declared in the application.

Everything presented online and not supplemented or corrected remains the same.

The undersigned assumes responsibility, pursuant to articles 46 and 47 of DR (Presidential Decree) no. 445/2000, for the declarations made and the files attached to the online application, in full knowledge of criminal sanctions resulting from false attestations and / or false declarations.

Date

Signature

N.B. A valid identity document must be attached to this form, to be completed according to the terms of article 5 of the call for applications for the competitive selection procedure.
This form must be sent to the registered email (PEC) address of the amministrazione.centrale@cert-unile.it within the deadline of the call for applications.



**UNIVERSITÀ
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**RIPARTIZIONE DIDATTICA E
SERVIZI AGLI STUDENTI**

AREA POST LAUREA

UFFICIO MASTER E DOTTORATI

**Centro Congressi
Campus Ecotekne
S.P. 6, Lecce- Monteroni**
Tel. +39 832 - 299041 –
299210 - 299232 - 299238
master.dottorati@unisalento.it

Allegato (Annex 4)

SUBJECT: Request for correction of the application submitted by _____ for the PhD in
“.....” – 36 th cycle.

To the person responsible for the admissions procedure

The undersigned, born at _____, resident in _____, tel. _____,
mail _____, having applied to participate in the competitive selection procedure for
admission to the PhD Course in _____, approved by D.R (rector’s
decree) and needing to supplement what is stated or attached

REQUESTS

that he or she is allowed to correct, in accordance with the provisions of article 5 of the call for
applications for the competitive selection procedure and in the manner specified therein, the
application to participate in the competitive selection procedure in question already completed
online.

With this note, pursuant to the provisions of article 5 of the call for applications for the competitive
selection procedure which he / she has read carefully and in its entirety and according to the
procedures specified therein.

Therefore, he or she asks, under his / her own responsibility, to replace the following file(s) marked
in the online procedure with the object:

with the file (s) attached to this note.

Everything presented online and not rectified / corrected remains the same.

The undersigned assumes responsibility, pursuant to articles 46 and 47 of DR (Presidential Decree)
no. 445/2000, for the declarations made and the files attached to the online application, in full
knowledge of criminal sanctions resulting from false attestations and / or false declarations.

Date

Signature

N.B. A valid identity document must be attached to this form, to be completed according to the terms of article 5 of the call for
applications for the competitive selection procedure.
This form must be sent to the registered email (PEC) address of the amministrazione.centrale@cert-unile.it within the deadline of the
call for applications.



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299210 - 299232 - 299238
master.dottorati@unisalento.it

Allegato (Annex 5)

SUBJECT: Competitive selection procedure for the PhD in” – 36
th cycle. Request for an interview via MICROSOFT TEAMS.

To the person responsible for the admissions procedure

The undersigned, born at _____, resident in _____, tel. _____,
mail _____, having applied to participate in the competitive selection procedure for
admission to the PhD Course in _____, approved by D.R (rector’s
decree) and needing to supplement what is stated or attached

DECLARES

That he / she

is resident or living outside Italy and precisely at the location below

Or that he / she

is employed or engaged outside Italy on the date set for the interview for the following motives
or to be unable to be present in person in the date and place planned for the interview

Therefore, he or she requests, pursuant to the provisions of article 8 of the call for applications to the
competitive selection procedure which he or she has read carefully and in its entirety and according
to the procedures specified therein, to be allowed to conduct the interview remotely via a video call
using the "Microsoft TEAMS" system and indicates the following mail account (write clearly and
legibly):

The undersigned assumes responsibility, pursuant to articles 46 and 47 of DR (Presidential Decree)
no. 445/2000, for the declarations made and the files attached to the online application, in full
knowledge of criminal sanctions resulting from false attestations and / or false declarations.

Date

Signature

N.B. A valid identity document must be attached to this form, to be completed according to the terms of article 5 of the call
for applications for the competitive selection procedure.
This form must be sent to the registered email (PEC) address of the amministrazione.centrale@cert-unile.it within the
deadline of the call for applications.



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All. F)

CORSO DI DOTTORATO IN “INGEGNERIA DEI SISTEMI COMPLESSI”

<u>Dipartimento proponente</u>	Ingegneria dell’Innovazione
<i>Department</i>	
<u>Coordinatore</u>	Prof. Giulio Avanzini - tel. 0832/297798
<i>Coordinator</i>	Mail: giulio.avanzini@unisalento.it
<u>Durata</u>	3 anni
<i>Total duration</i>	
<u>Posti e borse di studio</u>	<u>Numero complessivo di posti</u> 15
<i>Positions and scholarships</i>	<u>Posti a tematica generale</u> 5
	- di cui con borsa di studio su fondi di Ateneo 3
	- senza borsa di studio 2
	<u>Posti riservati a dipendenti di imprese impegnati in attività di elevata qualificazione (dottorato indu-striale) o a docenti di istituti e centri di ricerca pubblici impegnati in attività di elevata qualifica- zione (con mantenimento di stipendio)</u> 2
	Convenzioni con:
	- R.I. S.p.A. 1
	- Università Al Akhawayn, Ifrane (Marocco) 1
	<u>Posti a tematica vincolata:</u> 8
	Costituiscono posti a tematica vincolata i seguenti:
	- posti co-finanziati su fondi di progetto 3
	- posto con borsa su Convenzione CMCC 1
	- posto con borsa su Convenzione Expleo 1
	- posto con borsa su Convenzione FBK 1
	- posto con borsa su Convenzione IIT 1
	- posto con borsa su Convenzione Links M&T 1
	<u>Posti a tematica generale senza borsa di studio</u> 2
	Il valore delle borse di studio su convenzione o progetto corrisponde all’importo indicato dal DM n. 40/2018 ed è quindi equivalente a quello delle borse bandite sui fondi d’Ateneo.
	I candidati interessati a una delle posizioni a tematica vincolata dovranno dichiarare nella domanda il loro



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eventuale interesse per una sola delle posizioni indicate.

Analogamente, i candidati in servizio presso l'Università di Ifrane o R.I. S.p.A. dovranno candidarsi alla posizione riservata alla loro compagnia/istituzione.

I candidati che concorrono per posizioni specifiche verranno inseriti sia nella graduatoria generale e in una graduatoria separata relativa alla borsa tematica prescelta.

Non è possibile essere selezionati per una borsa a tematica vincolata, se non la si indica esplicitamente nella domanda 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 riservate è comunque vincolato al raggiungimento del punteggio minimo per l'ammissione al corso.

Altri posti con borsa potranno essere assegnati in caso di valutazione positiva delle proposte sottomesse dalla Scuola di Dottorato dell'Università del Salento in risposta all'eventuale bando ministeriale sui Dottorati Innovativi a caratterizzazione Industriale e al bando della Regione Puglia (Avviso Pubblico n. 2 FSE/2020 "Dottorati di ricerca in Puglia XXXVI ciclo").

ENGLISH VERSION

Number of positions **15**

General positions **5**

- Scholarships on University budget **3**

- Ph.D. Positions without scholarship **2**

Positions reserved to personnel from highly qualified 2 companies (industrial Ph.D.) or research institutions

Agreements with

- Università Al Akhawayn, Ifrane (Marocco) **1**

- R.I. S.p.A. **1**

Positions with a pre-defined topic:
8



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- Scholarships co-funded on available research funds
3
- Scholarship funded on agreement with CMCC
1
- Scholarship funded on agreement with Expleo
1
- Scholarship funded on agreement with FBK
1
- Scholarship funded on agreement with IIT 1
- Scholarship funded on agreement with Links M&T
1

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.

The candidates interested to one of the scholarship with a pre-defined topic can apply to only one of the 8 positions, explicitly indicating this option on their application form.

Candidates from Ifrane University and R.I. S.p.A. should also apply to the reserved positions for their company/ institution.

The candidates to specific positions will be evaluated within the general list, but a separate shortlist will also be defined by the selection committee for each scholarship with a preselected topic.

It is not possible to be shortlisted for the scholarship, if the interest in not explicitly stated in the application form by selecting the corresponding option, within the application procedure.

The PhD candidates selected for one of the positions with predefined topic 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 also for candidates applying to reserved positions.

An increased number of funded positions may become available in case of a positive evaluation of the Ph.D. course within the call of the Italian Ministry of University and Research for Innovative Industrial Ph.D. Courses and/or the Apulia Region call (Avviso Pubblico n. 2 FSE/2020 “Dottorati di ricerca in Puglia XXXVI ciclo”).



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**N. 3 posti con borsa co-finanziate dal
Dipartimento e fondi di ricerca del
proponente:**

**Borsa N. 1: Resilienza dei sistemi energetici
(tutor prof. A. Ficarella)**

I sistemi elettrici, i sistemi di generazione energetica (EPES - Electric Power and Energy System), i sistemi di distribuzione dell'energia elettrica e dei combustibili sono di fondamentale importanza per l'economia e la società. L'uso crescente di risorse rinnovabili e la poli-generazione portano l'ecosistema ad essere decentralizzato. La presenza di soggetti (prosumers) che su piccola scala producono energia e la conferiscono in rete rende bidirezionale il flusso energetico. I dispositivi interconnessi sono sempre più numerosi e dotati di funzioni avanzate e richiedono una gestione sempre più articolata delle smart grids. L'impatto della trasformazione digitale nel settore energetico riguarda l'intera filiera dell'energia: dagli approvvigionamenti, agli aggregatori, alla distribuzione e al trasporto, fino alla vendita e al rapporto con i clienti finali e cambia completamente il paradigma: la sicurezza dei sistemi elettrici, tradizionalmente basata sulla netta separazione fra IT (Information Technology) e OT (Operation Technology), oggi deve essere declinata in ottica di cyber-physical social systems, tenendo conto della sostenibilità energetica e le relative rilevanti questioni ambientali e sociali legate ai flussi di energia. Obiettivo del percorso sarà di avanzare la conoscenza sulle tematiche della resilienza dell'ecosistema energetico, nell'ottica dei cyber-physical systems, che vedano coinvolti utenti finali, produttori e utilizzatori di energia e dati.

ENGLISH VERSION

**Position N. 1: Resilience of Energy Systems
(tutor prof. A. Ficarella)**

EPESs (Electric Power and Energy Systems) and the systems of electricity and fuel distribution are critical for the economy and society. The growing use of renewable resources and poli-generation lead the ecosystem to be decentralized. The presence of subjects (prosumers) that produce energy on a small scale and confer on the network makes the energy flow bidirectional. The interconnected devices are increasingly numerous and equipped with advanced functions, requiring an increasingly complex management of smart grids. The impact of digital transformation in the energy sector affects the entire energy supply chain: from procurement, to aggregators, to distribution and transportation, to sale and to the



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relationship with end customers, completely changing the paradigm: Electrical systems security, traditionally based on the clear separation between IT (Information Technology) and OT (Operation Technology), today must be declined with a view to cyber-physical social systems, taking into account energy sustainability and the relevant environmental and social issues related to the flows of power. The aim of the course will be to advance knowledge on the issues of resilience of the energy ecosystem, analyzed according to cyber-physical systems models, which involve end users, producers and users of energy and data.

Borsa N. 2: Analisi, definizione e validazione di modelli innovativi per gestione digitale di infrastrutture complesse (tutor prof. A. Corallo)

L'attività di ricerca consisterà nella messa a punto di tecniche e metodologie innovative abilitanti la trasformazione digitale di infrastrutture complesse, secondo approcci e tecnologie basati sul Building Information Modelling (BIM), dove un modello digitale tridimensionale parametrico e informativo dell'opera complessa funge da fonte di informazioni autorevole per tutte le attività e i processi coinvolti nel suo ciclo di vita, agevolando il lavoro collaborativo e digitale di team con competenze e responsabilità diverse, migliorandone la manutenzione nel tempo dell'opera e gestendo in maniera preventivi rischi o eventi durante la sua fase operativa. Si richiede che il candidato, dopo un'approfondita review della letteratura, definisca metodologie di analisi, cattura e sfruttamento della conoscenza durante le varie fasi del ciclo di vita dell'infrastruttura identificata, sviluppando modelli innovativi e integrati che contemplino creazione e mantenimento di ampie e strutturate banche dati funzionali a analisi complesse. Particolare enfasi sarà conferita a casi di studio applicativi, nei quali identificare sfide, problemi di implementazione, requisiti e *lesson learned*, dove sarà possibile validare i modelli sviluppati, permettendo la transizione da processi tradizionali a processi dinamici, intelligenti ed evolutivi.

ENGLISH VERSION

Position N. 2: Analysis, definition, and validation of innovative models for digital management of complex infrastructures (tutor prof. A. Corallo)

Research activity consists in the analysis and definition of innovative techniques and methodologies enabling the



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digital transformation of complex infrastructures, using Building Information Modelling (BIM) approaches and technologies, where a digital three-dimensional informative and parametric model of the complex asset serves as the authoritative information source for all activities and processes in its life cycle, facilitating the collaborative and digital work of teams with different skills and responsibilities, improving the maintenance of the work over time and managing in preventive manner risks or events during its operational phase. The candidate will be invited to, after a deep literature review, define methodologies for the analysis, capture, and exploitation of knowledge during the various phases of the infrastructure life cycle, developing innovative and integrated models that include the creation and maintenance of large and structured databases for complex analyses. Particular emphasis will be given to case studies, in which to identify challenges, implementation problems, requirements and lessons learned, and where it will be possible to validate the models developed, allowing the transition from traditional processes to dynamic, intelligent and evolutionary processes.

Borsa N. 3: Mobilità elettrica e sistemi di ricarica (tutor prof. A. De Risi)

La capacità di immagazzinare energia, sia prodotta da fonti rinnovabili che proveniente da rete, si sta dimostrando uno dei fronti più significativi nell'evoluzione in chiave *smart* della rete di distribuzione locale in quanto, per valorizzare appieno la generazione rinnovabile, che per sua natura è non programmabile, è necessario prevedere un'adeguata capacità di immagazzinamento. In tale ottica il progetto propone di sviluppare il concetto di *utility electrical energy storage system*, cioè di un impianto di accumulo come componente di rete, che l'operatore locale può adottare per l'esercizio della rete stessa o per affrontare criticità specifiche, sviluppando sistemi di accumulo per la mobilità elettrica basati sull'utilizzo di fonti rinnovabili. I sistemi sviluppati dovranno essere modulari, a basso costo e sostenibile dal punto di vista ambientale e basati su sistemi innovativi per la generazione. La modularità intrinseca nel design del sistema ne permetterà una perfetta integrazione all'interno della rete di distribuzione, in funzione dell'utilizzo (anche per applicazioni veicolari BEV) e della tipologia di utenza. Il progetto di ricerca propone lo sviluppo di un dimostratore utilizzabile per applicazioni sia fisse che veicolari.

ENGLISH VERSION

Position N. 3: Electric mobility and charging systems (tutor prof. A. De Risi)



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The capability to store energy, both produced from renewable sources and provided by the grid, is one of the key points for a smart evolution of the distribution network. To fully exploit energy production from renewables, which by their nature are not programmable, an adequate storage capacity is necessary. With this in mind, the project proposes to develop the concept of a plug-and-play electrical energy storage system integrated with RE production, which can help grid operators to keep an high quality energy distribution even under strong perturbations caused in instance by fast charging stations for electric mobility. The developed systems must be modular, low cost and environmentally sustainable and based on innovative systems for generation. The intrinsic modularity in the design of the system will allow it to be perfectly integrated into the distribution network, according to its use (also for BEV vehicle applications) and the type of user. The research project proposes the development of a demonstrator that can be used for both fixed and vehicular applications.

N. 5 posti con borsa finanziata su convenzioni con Aziende o Enti di ricerca:

Borsa n. 4: Tecniche di Machine Learning per lo studio dei cambiamenti climatici (Convenzione con CMCC)

ENGLISH VERSION

Position N. 4: Machine Learning for Climate change Applications (agreement with CMCC)

Borsa N. 5: Monitoraggio ambientale e sanitario attraverso analisi di dati da dispositivi mobili (Convenzione con Expleo Italia S.p.A.)

La ricerca mira allo sviluppo di nuova conoscenza sui sistemi di raccolta e validazione di dati basata su dispositivi mobili posseduti dai cittadini nell'ambito del monitoraggio dell'inquinamento ambientale (sia urbano sia per il tracciamento in agricoltura) sia nella salute e del comportamento delle persone tramite gestione di dati geolocalizzati per triangolare dati relativi all'ambiente e all'inquinamento con dati epidemiologici (sia in fase cronica sia in fase acuta) e riferimenti alle colture agricole e all'allevamento. Le attività di ricerca riguarderanno la gestione dei dati (raccolta, pre-elaborazione, sviluppo di repository di dati eterogenei, loro utilizzo per l'analisi) nello



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scenario dell'Internet of People, dove l'infrastruttura di comunicazione e la raccolta dati è sempre più prossima al singolo individuo, grazie alle tecnologie dell'IoT e dell'Edge Computing. I dati raccolti dai cittadini o tramite sensori mobili dislocati sul territorio saranno integrati con dati ufficiali (i.e. open data) per la realizzazione di servizi disponibili agli utenti finali. Le attività di ricerca riguarderanno il miglioramento della raccolta di dati da fonti non certificate nel contesto dei cyber-physical social systems e la gestione della protezione e della sicurezza dei dati.

ENGLISH VERSION

Position N. 5: Environmental and Health Monitoring from data obtained from personal devices (agreement with Expleo Italia S.p.A.)

The research aims to develop new knowledge on data collection and processing systems to triangulate environmental pollution, epidemiological data (both in the chronic and acute phase) and agricultural crops and livestock. Data will be gathered from mobile devices owned by citizens, institutions and open data in the scenario of Internet of People, where the communication infrastructure and data collection is always closer to the individual, thanks to IoT and Edge Computing technologies. The data collected by citizens or via mobile sensors located within the territory will be integrated with official data (i.e. open data) for the creation of services available to end users. The research activities will concern the improvement of the collection of data from uncertified sources in the context of cyber-physical social systems and the management of data protection and security.

Borsa N. 6: Tecnologie innovative per sistemi LIDAR ad alte prestazioni (Convenzione con FBK)

Le tecnologie sicure e affidabile per la guida autonoma di autoveicoli richiedono sistemi LiDAR innovativi che siano a lunga portata, ad alta risoluzione e ad alta densità di pixel, con buona capacità di soppressione della luce di fondo, con distanza di rilevamento di oltre 100 metri, e sensibili a sufficienza per rilevare anche piccoli bersagli. Di solito, i sistemi LiDAR utilizzano segnali a impulsi di durata pari a pochi nanosecondi. Al fine di ottenere una risoluzione elevata, viene in genere utilizzato un ADC ad alta velocità per ricostruire la forma d'onda trasmessa nel ricevitore. Questo ADC è di solito implementato con un'architettura multi-canale interlacciata nel tempo che necessita di una potenza insopportabilmente elevata.

Lo scopo del dottorato di ricerca è studiare e, infine, implementare una architettura di interfaccia per sistemi



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LiDAR basata su eventi in cui l'ADC è sostituito da un comparatore a tempo continuo e da un TDC (convertitore da tempo a digitale). Per consentire il risparmio energetico, l'idea di base dello studio proposto prevede che il comparatore venga attivato solo quando l'impulso ricevuto supera la soglia preimpostata.

ENGLISH VERSION

Position N. 6: Innovative Technologies for High Performance LIDAR systems (agreement with FBK)

Safe and reliable autopilot technology puts a strong demand for innovative long detection-range, high-resolution, and high-pixel density LiDAR systems, with capability of strong background light suppression, detection distance of more than 100 m, and detection of small targets. Usually, LiDAR uses pulse signals in nanosecond. In order to achieve high resolution, a high-speed ADC is used to recover the transmitted waveform in the receiver. This ADC is usually implemented with multi-channel time-interleaved architecture which results in unbearably high power. The scope of the PhD is to study and, eventually, implement receiver architectures event-based triggering architecture in which the ADC is replaced by a continuous-time comparator and TDC (time to digital converter). Only when the received pulse exceeds the preset threshold will the comparator be triggered enabling power saving.

Borsa N. 7: Tecnologie emergenti per l'IoT (Convenzione con IIT)

Il dottorato mira a formare giovani ricercatori focalizzati su attività di ricerca atte a definire e progettare ambienti smart basati su tecnologie abilitanti emergenti in ambito IoT, includendo sensoristica avanzata e innovativa e servizi software principalmente in Cloud. Il dottorando acquisirà competenze su tutti gli elementi fondamentali per sviluppare ambienti smart:

(i) prototipazione di sistemi embedded, micro sensoristica avanzata low power e low cost, dispositivi wearable;
(ii) soluzioni architetture e protocolli capaci di garantire scalabilità, tempi di risposta molto bassi e facile integrazione con i servizi Internet. Su questa componente saranno investigate soluzioni basati su *edge computing* e *fog computing*.

ENGLISH VERSION

Position N. 7: Emerging Technologies for IoT (agreement with IIT)



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The PhD aims to train young researchers focused on research activities aimed at defining and designing smart environments based on emerging IoT enabling technologies, including advanced and innovative sensors, and software services mainly in the Cloud. The PhD student will acquire skills on all the main elements needed to develop smart environments:

- (i) prototyping of embedded systems, low power and low cost advanced micro sensors, wearable devices;*
- (ii) architectural solutions and protocols capable of ensuring scalability, very low response times and easy integration with Internet services. Solutions based on edge computing and fog computing will be investigated in this perspective.*

Borsa N. 8: Sistemi manifatturieri Engineering to Order (Convenzione con LINKS Management and Technology S.p.A.)

L'ambito di ricerca che si intende esplorare è riferito ad uno specifico campo della pianificazione delle tecnologie di produzione, noto come Engineering to Order (ETO). Nei sistemi ETO è ampiamente diffuso l'utilizzo di strumenti di pianificazione delle attività svolta sulla base di regole empiriche dettate dall'esperienza di ogni singolo project manager. La collaborazione tra differenti project manager, che lavorano in modo concorrenziale sull'utilizzo delle risorse, è nulla se analizzata dal punto di vista dell'automazione e ottimizzazione dei processi decisionali. Le direzioni di innovazione degli ambiti di ricerca legati alle tecnologie informatiche vanno nella direzione dello sviluppo delle potenzialità di collaborazione sfruttando le potenzialità del cloud, lasciando completamente scoperta l'area relativa all'automazione dei processi decisionali. La ricerca proposta intende estendere le potenzialità legata alla codifica della conoscenza in meta-modelli introducendo l'automazione dei processi decisionali relativamente ai processi tipici dei sistemi manifatturieri ETO sia attraverso la riduzione dei tempi di sviluppo di modelli di automazione e gestione della conoscenza sia investigando i principi alla base della programmazione vincolata per migliorare la qualità delle soluzioni nei sistemi e ambiti industriali su grande scala, quali i processi ETO per la produzione di sistemi di automazione (macchine packaging industriale) o ambito aeronautico / ferroviario.

ENGLISH VERSION

Position N. 8: Engineering to Order Manufacturing Systems (agreement with LINKS Management and Technology S.p.A.)



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The research area refers to a specific field of production technology planning, known as Engineering to Order (ETO). In ETO systems, the use of planning tools for activities carried out on the basis of empirical rules dictated by the experience of each individual project manager is widespread. The collaboration between different project managers, who work competitively on the use of resources, is void if analyzed from the point of view of automation and optimization of decision-making processes. The innovation directions of the research areas related to information technologies go in the direction of developing the potential for collaboration by exploiting the potential of the cloud, leaving the area relating to automation of decision-making processes uncovered. The proposed research aims at extending the potential linked to coding of knowledge in meta-models by introducing the automation of decision-making processes relating to the typical processes of ETO manufacturing systems, through the reduction of development time of automation and knowledge management models as well as by investigating the principles underlying constrained programming to improve the quality of solutions in large-scale industrial systems and environments, such as ETO processes for the production of automation systems (industrial packaging machines) or aeronautics / railways.

- N. 2 posti riservati 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

Posto n. 9: Approcci data driven di collaborazione digitale in processi decisionali di gestione delle emergenze: un modello di supporto alla continuità di business (convenzione con R.I. S.p.A.)

ENGLISH VERSION

Position N. 9: Data Driven Decision Making and Digital Collaborative Approaches for Emergency Management: a Model for Supporting Business Continuity (agreement with R.I. S.p.A.)

Posto n. 10: Posizione riservata a dipendenti dell'Università Al Akhawayn, Ifrane (Marocco)

ENGLISH VERSION

Position N. 10: Position reserved to staff from Al Akhawayn University, Ifrane (Morocco)



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Tematiche di ricerca

Research themes

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.

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.

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.

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 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, ecc.). 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



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	<p><i>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><u>Requisiti di partecipazione</u></p> <p><i>Requirements for admission</i></p>	<ul style="list-style-type: none">- Laurea quinquennale (ante DM 509/1999) o Laurea Specialistica/Magistrale (ex DM 509/1999 e DM 270/2004) in qualsiasi disciplina.- 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><i>For foreign students:</i> Degree equivalent to a Master in Engineering or Master of Science, equivalent to one of the Master Degree titles recognized under the Italian rule of law.</p>
<p><u>Modalità di selezione</u></p> <p><i>Selection procedure</i></p>	<p>Valutazione titoli, progetto di ricerca e colloquio</p> <p><u>Valutazione dei titoli</u> (max 10/100):</p> <ul style="list-style-type: none">- 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);- max 2 punti per percorsi formativi post-laurea, master e altri titoli conseguiti;- max 2 punti per pubblicazioni scientifiche pertinenti alle tematiche del dottorato.



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I candidati al concorso dovranno, pertanto, allegare obbligatoriamente nella voce “altri titoli” presente nella procedura telematica e pena la non valutazione, la documentazione 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 obtains 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



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	<p>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><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><u>Lingua nella quale possono essere svolte le prove</u></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><u>Calendario delle prove</u></p> <p><i>Selection procedure timeline</i></p>	<p><u>I colloqui si terranno il 01/10/2020 con inizio alle ore 9:30.</u> I colloqui proseguiranno il 2/10/2020, sempre a partire dalle 9:30, se il numero di candidati ammessi sarà troppo elevato per concludere le prove in un'unica seduta.</p>



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	<p>Il colloquio sarà svolto per tutti i candidati ammessi tramite la piattaforma Microsoft TEAMS. I componenti della Commissione potranno riunirsi in presenza presso il Dipartimento di Ingegneria dell'Innovazione, ove la situazione epidemiologica lo consenta.</p> <p><i>The oral exam will be held on 01/10/2020 at 9:30 (Rome time). The exam will continue on 02/10/2020 at 9:30, if the number of shortlisted candidates is too large for completing the hearings in one day.</i></p> <p><i>All candidates will be heard through the Microsoft TEAMS platform.</i></p> <p><i>The selection committee will meet at the Department of Engineering for Innovation, if possible, within the measures of containment of the COVID-19 outbreak.</i></p>
<p><u>Publicazione data degli ammessi al colloquio</u></p> <p><i>Shortlist of candidates for the oral exam</i></p>	<p>La pubblicazione dell'elenco degli ammessi al colloquio avverrà entro il giorno 25/09/2019.</p> <p>L'elenco dei candidati ammessi al colloquio sarà effettuata tramite una delle seguenti modalità:</p> <ul style="list-style-type: none">a) pubblicazione sul sito internet del Dip.to di Ingegneria dell'Innovazione https://www.dii.unisalento.it/home_page;b) comunicazione via mail ai candidati all'indirizzo di posta elettronica indicato nella domanda di ammissione al concorso. <p><i>Short list of candidates convened for the oral exam will be published by 25/09/2019.</i></p> <p><i>Admission to the oral exam will be</i></p> <ul style="list-style-type: none">a) <i>published on the internet website of the Department of Engineering for Innovation</i> https://www.dii.unisalento.it/home_page;b) <i>communicated by e-mail using the e-mail address indicated in the application form.</i>
<p><u>Siti web dove reperire le informazioni</u></p> <p><i>Information available from these websites</i></p>	<p>Sito di Ateneo: www.unisalento.it – sezione Bandi e concorsi – concorsi – Ricerca – Bandi per dottorati di ricerca</p> <p>sito web del Dipartimento di Ingegneria dell'Innovazione: https://www.dii.unisalento.it/home_page</p>
<p><u>Responsabile amministrativo del procedimento di selezione</u></p> <p><i>Administrative staff for the selection process</i></p>	<p>Dott. Andrea Cuna – tel. 0832/299232</p> <p>andrea.cuna@unisalento.it</p> <p>master.dottorati@unisalento.it</p>