



Politecnico
di Bari

RESEARCH AND TECHNOLOGY TRANSFER SECTOR
Post-Lauream Office
SELECTION CALL FOR ADMISSION TO
THE RESEARCH DOCTORATE (Ph.D.) PROGRAMS – XXXII CYCLE
AT THE POLYTECHNIC OF BARI
ACADEMIC YEAR 2016/2017

Rector's Decree n. 272

THE RECTOR

- In accordance with the Italian Law dated August 13, 1984, n. 476 concerning University scholarships and Ph.D. programs;
- in accordance with the Italian Law dated February 5, 1992, n. 104, and in particular with art. 20 as amended;
- in accordance with the Italian Law dated December 31, 1996, n. 675 as amended;
- in accordance with the Italian Law dated July 3, 1998, n. 210 as amended by the Italian Law n. 240/2010;
- in accordance with the Italian Ministerial Decree dated April 30, 1999, n. 224;
- in accordance with the Italian Ministerial Decree dated November 3, 1999, n. 509 concerning university teaching autonomy;
- in accordance with the Italian Presidential Decree dated December 28, 2000, n. 445, concerning laws and regulations relating administrative documentation;
- in accordance with the Italian Legislative Decree dated March 7, 2005, n. 82 and later modifications;
- in accordance with the Italian Council of Ministers Presidential Decree dated April 9, 2001, laying down rules for the uniform treatment regarding the right to academic study;
- in accordance with the Italian Legislative Decree dated March 29, 2012, n. 68 and in particular with art. n.18 (8);
- in accordance with the Puglia Regional Law dated December 12, 2012, n. 45 and in particular with art. 11;
- in accordance with the Italian Ministerial Decree dated October 22, 2004, n. 270;
- in accordance with: the Italian Ministerial Decree dated October 23, 2003, n. 198 art. 3 and 6, the Italian Ministerial Decree dated August 9, 2004, n. 263, and the Italian Ministerial Decree dated November 3, 2005, n. 492;
- In accordance with the Italian Ministerial Decree dated June 18, 2008, concerning the increase of Ph.D. scholarships yearly amount;
- provided that the *Fondo per il sostegno giovani* granted three additional Ph.D. scholarships, according to the Italian Legislative Decree, n. 105/2003, art. 1 (1,c), also Italian law n. 170/2003 dated as prescribed by
- in accordance with the Statute of the *Politecnico di Bari*;
- in accordance with the Italian Ministerial Decree dated February 8, 2013, n. 45 “Regulations on

procedures for accreditation of Ph.D. venues and programs and on criteria for the establishment of Ph.D. programs by accredited bodies;”

- in accordance with the Regulation of the *Politecnico di Bari* concerning Ph.D. programs, issued with Rector’s Decree n. 286 dated July 1, 2013;
- in accordance with the Italian ministerial note n. 436 dated March 24, 2014, containing the “Guidelines for the accreditation of Ph.D. programs”;
- in accordance with the Italian ministerial note, prot. n. 6363, dated March 11, 2016, containing *operational indications on accreditation procedures of Ph.D. programs*, academic year 2016/2017;”
- in accordance with the institution decree of the Consortium *ARGONAUTI*, approved by the Academic Senate on September 17, 2013;
- in accordance with the approval by the Board of the Ph.D. School of the proposals concerning the Ph.D. programs of the *Politecnico di Bari* – XXXII cycle, participating to the School;
- in accordance with the report of the University Evaluation Board dated April 19, 2016;
- in accordance with the resolutions of the Academic Senate dated March 8, 2016, April 1, 2016, and May 9, 2016;
- in accordance with the resolution of the Administration Council dated April 4, 2016;
- in accordance with the approvals by ANVUR/MIUR;
- in accordance with the Convention with **OMER s.r.l.**, which committed itself to grant one scholarship to the Ph.D. program in Mechanical Engineering and Management, so as to develop the research theme: *Novel Processes for sheet metal forming of aluminium alloys*.
- in accordance with the Convention with the **Italian Institute of Technology Onlus—IIT**, which committed itself to grant one scholarship to the Ph.D. program in Mechanical Engineering and Management, so as to develop the research theme: *Transport of nanoparticles inside blood flows*;
- in accordance with the Convention with **ENEA**, National Agency for new technologies, Energy and sustainable economic development, which committed itself to grant one scholarship to the Ph.D. program in Mechanical Engineering and Management, so as to develop the research theme: *Valorising materials from process-flows by small-size biorefineries producing syngas to be used in distributed energy power-plants*;
- provided the availability of funds for the scholarships partially or entirely funded by the *Politecnico di Bari*;

DECREES

Art. 1

Establishment and Activation

The *Politecnico di Bari* has opened the 32nd cycle of the research doctorate (Ph.D.) programs, academic year 2016/2017.

Moreover, the *Politecnico di Bari* has opened a public selection call, based on qualifications and interview, for the admission to Ph.D. programs as identified below.

This call identifies, for each Ph.D.:

- the duration and the language of the taught courses;
- the total number of available positions;
- the number of scholarships funded by the *Politecnico di Bari* and by third parties;
- the number of available scholarships, if any, for applicants possessing a foreign degree, granted

- by a foreign university within or outside the European Union;
- the type of degree required for admission;
- the commitment required;
- the possible specialist *curricula*, if any;
- the compulsory foreign language/s.

1. Ph.D. in MECHANICAL ENGINEERING AND MANAGEMENT.

Belonging to the Doctoral School of the *Politecnico di Bari*

Offered by the Department of Mechanics, Mathematics and Management

Coordinator: Prof. Giuseppe DEMELIO

- Duration of the courses: three years, starting November 1, 2016;
- Language of the taught modules: English;
- Total number of available positions: **14**
- total number of available scholarships: **11**, including
- number of available scholarships awarded by the *Politecnico di Bari*: **8**, one of which being reserved to applicants possessing a foreign degree;
- number of available scholarships reserved to applicants with a foreign degree: **1**
- number of available scholarships awarded by **OMER s.r.l., Carini (PA)**: **1**. Research theme: *Novel Processes for sheet metal forming of aluminium alloys*;
- number of available scholarships awarded by the **Italian Institute of Technology Onlus— IIT, Genova**: **1**. Research theme: *Transport of nanoparticle inside blood flows*;
- number of available scholarships awarded by **ENEA, National Agency for new technologies, Energy and sustainable economic development, Centro Ricerche Trisaia, Rotondella (MATERA)**: **1**. Research theme: *Valorizing materials from process-flows by small-size biorefineries producing syngas to be used in distributed energy power-plants*;
- number of positions without scholarship: **3**
- type of degree required:
Degree diploma awarded by the education system prior to the Italian Ministerial Decree dated November 3, 1999 n. 509: **all types**;
Specialist degree awarded in accordance with the Italian Ministerial Decree dated November 3, 1999 n. 509, or Master of Science degree achieved in accordance with Italian Ministerial Decree dated October 22, 2004 n. 270: **all types**;
- compulsory foreign language: English.
- This Ph.D. program is not subdivided into curricula.

2. Ph.D. in ELECTRICAL AND INFORMATION ENGINEERING.

Belonging to the Doctoral School of the *Politecnico di Bari*

Offered by the Department of Electrical and Information Engineering

Coordinator: Prof. Vittorio PASSARO

- Duration of the courses: three years, starting November 1, 2016;
- Language of the taught modules: English;
- Total number of available positions: **10**
- number of available scholarships awarded by the *Politecnico di Bari*: **8**, one of which being reserved to applicants possessing a foreign degree;
- number of positions without scholarship: **2**
- type of degree required:
Degree diploma awarded by the education system prior to the Italian Ministerial Decree dated November 3, 1999 n. 509: **all types**;
Specialist degree awarded in accordance with the Italian Ministerial Decree dated November 3,

1999 n. 509, or Master of Science degree achieved in accordance with Italian Ministerial Decree dated October 22, 2004 n. 270: **all types**;

- compulsory foreign language: English
- This Ph.D. program is not subdivided into curricula.

3. Ph.D. in RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT.

Belonging to the Doctoral School of the *Politecnico di Bari*

Offered by the Department of civil, environmental, land, construction engineering, and chemistry.

Coordinator: Prof. Michele Mossa

- Duration of the courses: three years, starting November 1, 2016;
- Language of the taught modules: English;
- Total number of available positions: **10**
- number of available scholarships awarded by the *Politecnico di Bari*: **8**, one of which being reserved to applicants possessing a foreign degree;
- number of positions without scholarship: **2**
- type of degree required:

Degree diploma awarded by the education system prior to the Italian Ministerial Decree dated November 3, 1999 n. 509: **all types**;

Specialist degree awarded in accordance with the Italian Ministerial Decree dated November 3, 1999 n. 509, or Master of Science degree achieved in accordance with Italian Ministerial Decree dated October 22, 2004 n. 270: **all types**;

- compulsory foreign language: English.
- This Ph.D. program is not subdivided into curricula.

4. Ph.D in ARCHITECTURE: INNOVATION AND HERITAGE

In consortium with the Università degli studi ROMA TRE.

Offered Jointly by the Department of Civil Engineering- and Architecture-Sciences of the *Politecnico di Bari* and by the Department of Architecture of the *Università degli Studi ROMA TRE*.

Coordinator: Prof. Anna Bruna MENGHINI

- Duration of the courses: three years, starting November 1, 2016;
- Language of the taught modules: Italian;
- Total number of available positions: **10**
- total number of available scholarships: **8**, including
- number of available scholarships awarded by the *Politecnico di Bari*: **4**
- number of available scholarships awarded by the *Università degli Studi ROMA TRE*: **4**
- number of positions without scholarship: **2**
- type of degree required:

Degree diploma awarded by the education system prior to the Italian Ministerial Decree dated November 3, 1999 n. 509:

Architecture

Civil Engineering

Construction Engineering-Architecture

Specialist degree awarded in accordance with the Italian Ministerial Decree dated November 3, 1999 n. 509, or Master of Science degree achieved in accordance with Italian Ministerial Decree dated October 22, 2004 n. 270:

LM-2 Archeologia
LM-3 Architettura del Paesaggio
LM-4 Architettura e Ingegneria edile-architettura
LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale)
LM-10 Conservazione dei beni architettonici e ambientali
LM-11 Scienze per la conservazione dei beni culturali
LM-23 Ingegneria civile
LM-24 Ingegneria dei Sistemi Edilizi
LM-26 Ingegneria della Sicurezza
LM-89 Storia dell'arte
2/S (specialistiche in archeologia)
3/S Architettura del Paesaggio
4/S (specialistiche in architettura e ingegneria edile)
10/S (specialistiche in conservazione dei beni architettonici e ambientali)
28/S (specialistiche in ingegneria civile)
95/S (specialistiche in storia dell'arte)

- compulsory foreign language: English.
- This Ph.D. program is subdivided into the following curricula:
 - **Curriculum 1** – *Culture of Building*;
 - **Curriculum 2** – *Philological design*;
 - **Curriculum 3** – *Architecture design within an ancient country*.

There is only one selection, with a single ranking list, as described in detail later.

The number of scholarships may be increased upon funding by public and research institutions and by qualified private bodies, showing their interest after the issue of this admission selection call and before the publication of the ranking list (Rector's Decree of Acts Approval). Without any change in the deadline specified in art. 3 for the application admission and in the number of positions without scholarships.

Any variation regarding available positions will be published on the Albo Ufficiale online of the *Politecnico di Bari* (www.poliba.it, path: *Albo online*) being the official notification, as well as on www.poliba.it, path: *Didattica/Offerta formativa/Dottorati di Ricerca*.

The scholarships funded by third parties will be granted to their grantees upon receipt of the funds by the *Politecnico di Bari*.

The grantees of such scholarships may be required to carry out part of their research activity at the site of the funding agency, according to an agreed upon program.

Art. 2 **Requirements for Participation**

Admission applications can be submitted by Italian and foreign citizens who hold one of the eligible degrees (see ART. 1 above) or an equivalent academic qualification achieved abroad, or will obtain it by October 31, 2016. In the latter case, candidates will be admitted “with reservation” and they will have to produce, upon enrolment, a degree self-certification to enrol, indicating the degree held and the issuing University, under penalty of the loss of the right to admission to the Ph.D. program, in accordance with Italian Presidential Decree n. 445, art. 46, dated December, 28, 2000.

Candidates possessing a foreign degree must hold a II level or Master type degree, according to the

Bologna process, that enables the holder to enrol into a Ph. D. program in his/her own country and has been granted by an officially recognized University.

If such a degree has been already declared *equivalent*, by an Italian University, the applicant must provide a self-certification indicating the details of the certification document.

In case of a specific qualification issued by a foreign university, which still has not been declared equivalent to the Italian degree, the candidates, solely to be admitted to the Ph.D. program they want to apply to, must make an explicit request in the admission application and submit all useful documents for the purposes of allowing the Evaluation Committee to decide upon the suitability of the qualification achieved abroad, according to the rules existing in Italy and in the issuing country as well as to the international treaties signed by such countries.

In particular, Candidates holding a degree issued by a non EU country must provide with the admission application:

II level degree certificate with final grade, if already held.

Certificate of all exams required to obtain such a degree as well as the I level degree and of the grades obtained in all such exams (of both degrees).

Any other document suitable to prove the required equivalence (e.g., diploma supplement or the like)

All such documents must be translated into Italian or into English.

Except for the degree (which may be obtained no later than October 31, 2015), all titles useful for admission must be held upon applying to the Ph.D. program.

All candidates are admitted with reservation until validation of the admission requirements. The *Politecnico di Bari* reserves the right of ascertaining such requirements at any time, also after the start of the courses, according to art. 43 of the T.U. n.445/2000, and, if warranted, may exclude the applicant with written motivation.

Art.3

Admission Application

The admission application to the above Ph.D. programs, is available only online before midnight (Italian time) **of September 9, 2016**, using the procedure available on the website www.poliba.it, percorso: DIDATTICA/PORTALE DEGLI STUDENTI ESSE3.

All communications from the *Politecnico di Bari* regarding this selection call will be sent to the e.mail indicated by each applicant in his/her online application.

No other application, using different means, will be accepted.

It is noteworthy that the *Politecnico di Bari* is closed from August 8, 2016, to August 21, 2016.

The applicant is responsible for the correct completion of the registration procedure. No complaint for any problem to the platform will be accepted, so that applicants are invited to apply much earlier than the deadline.

In order to access the registration procedure it is necessary to be registered to the ESSE3 platform. Therefore those applicants who are not yet registered to ESSE3, must select REGISTRAZIONE and insert their biographical data. Later, by selecting LOGIN, they must digit their credentials received by the system, access their reserved area and upload the application.

Applicants who are already registered to ESSE3 must digit directly the menu voice LOGIN, access their reserved area using their own credentials and upload the application. All applicants are invited to update their identifying data at the voice **HOME**, in particular their e.mail address to which all

information will be sent.

At this point all candidates must choose on the menu at left the voice **SEGRETERIA**, then **TEST DI AMMISSIONE**, and the call of their interest.

While filling their application, candidates must:

- Choose the Ph. D. program for which they intend to compete, and the language (Italian or English) they want to use in the exam, digit their education data and follow all instructions provided by the system.
- Upload all documents and the self-certifications, according to the models provided by the Politecnico di Bari at www.poliba.it path *Didattica/Offerta formativa/Dottorati di Ricerca*, the specific documents required by the Ph.D. program of interest and the ID.
- All documents must be .pdf files no larger than 5 MB each. Each file must be named according to a code indicating a number and the type of document (e. g., *0.1CV*, *0.2documento di riconoscimento*, etc.), as specified later.
- In the online application, applicants with a handicap (according to the Italian laws, n. 104, February, 5, 1992, and n. 17, January 28, 1999) or with specific learning disorders (DSA, according to the Italian law, n. 170, October 8, 2010) must also request any helping tool or any additional time required during the exam.
- Applicants who wish to participate in more than one call (Ph.D. course) must apply separately to each of them and provide all documents required by it.

According to the Presidential Decree n. 445, December 28, 2000, and later amendments, Italian and EU citizens may provide a simple statement for the following states and facts certified by public administrations:

- a) Registration to public registers;
- b) Memberships of professional orders;
- c) Degrees held, passed exams,
- d) Any professional title;
- e) Being a student.

All applicants must upload together with their application:

1. Curriculum vitae et studiorum, **duly signed and dated according to the model provided by the Politecnico di Bari available at www.poliba.it *Didattica/Offerta formativa/Dottorati di Ricerca*; File name "01.CV"**
2. **A duly signed valid ID (identifying document); File name "02.Documento riconoscimento"**
 3. a self-declaration of other qualifications held suitable for his/her evaluation, **duly dated and signed, according to the model provided by the Politecnico di Bari available at www.poliba.it *Didattica/offerta formativa/Dottorati di Ricerca***; in accordance with art. 46 (Statements in lieu of certification) and art. 47 (substitutive statements of the affidavit) of Italian Presidential Decree n. 445/2000 (candidates, pursuant to art. 15 of the Italian Law of Stability n. 183/2011, may not submit certificates and affidavits issued by public administrations or by providers of public services relating to the qualifications held to be assessed. The above certificates should be replaced by the statements referred to in art. 46 and art. 47 of Italian Presidential Decree n. 445/2000);
File name "03.Dichiarazione altri titoli"
4. **Any publication concerning their activity and indicated in the CV. File name "11.Pubblicazione 1" File name "11.Pubblicazione 2"**

All of the aforementioned documents must be either in Italian or in English; otherwise, they must be translated into Italian or into English, under the care and responsibility of the applicant.

The online application is correctly completed only when, at the end of the procedure, the applicant will be able to print the .pdf file of his/her application produced by the system.

After confirming his/her data and submitting the application it will no longer be possible to modify it. Each applicant will be allowed to add/eliminate/modify the attached documents, but only before the deadline. After that nothing could be added or modified.

All applications will be verified by the administrative offices. In case of mistaken or incomplete application, the candidate will be excluded after being notified to his/her e.mail address.

No application being incomplete or lacking the mandatory titles will be accepted

In case of bulky documents exceeding 5 MB or of documents unavailable as .pdf files, applicants may submit them separately or by CD –DVD ROM, including a list of them, before 2 p.m. of the deadline-date for presenting the application.

All applicants may also submit their application and related documents on paper by sending it within a closed parcel to the following address: : Magnifico Rettore del *Politecnico di Bari – Direzione Gestione Risorse e Servizi Istituzionali- Settore Ricerca e Relazioni Internazionali,–Post-Lauream - Ufficio Protocollo – Via Amendola 126/B, 70126 BARI .*

On the parcel the name of the candidate must be written together with the following: “*Concorso di ammissione al Corso di Dottorato in (name of the Ph. D. program).* Each candidate is responsible for arrival of the parcel at the *Politecnico di Bari* before the deadline.

Specific requirements for each Ph.D. program

Only for candidates to a Ph.D. program in Mechanical Engineering and Management the following documents are also required:

- the three-year degree and specialist degree/master of science (or five-year degree) achieved, specifying the degree marks and the list of exams taken in the two courses of study (or in the five-year course of study) and the marks received, using the model **model provided by the Politecnico di Bari available at www.poliba.it** *Didattica/Offerta formativa/Dottorati di Ricerca (“Degree Self-declaration model with exams”);*

File name “04.Titoli di laurea”

- the title of the thesis and the name of supervisor, for the specialist degree/master of science degree (or five-year degree), together with a summary of the thesis (maximum 1000 characters);

File name “05.Abstract tesi”

- the proposal of a detailed three-year research project indicating the title of the research, the scientific basis of proposal, the research objectives, the methods to be adopted;

File name “06.Proposta di ricerca”

- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

File name “07.Lettere presentazione 1”

File name “07.Lettere presentazione 2”

In the preparation of the research proposal, the candidate must refer to the research themes of the groups belonging to a doctorate, available on the website www.poliba.it following the path *Il Mondo della Ricerca/Dipartimenti/ Dipartimento in Ingegneria Meccanica Matematica e Management <http://www-dmmm.poliba.it/dottorati/course/view.php?id=4>*

Only for candidates to the Ph.D. program in Electrical and Information Engineering the

following documents are also required:

- the three-year degree and specialist degree/master of science (or five-year degree) achieved, specifying the degree marks and the list of exams taken in the two courses of study (or in the five-year course of study) and the marks received, using the model **model provided by the Politecnico di Bari available at www.poliba.it** *Didattica/Offerta formativa/Dottorati di Ricerca*("Degree Self-declaration model with exams");

File name "04.Titoli di laurea"

- a summary of the thesis (maximum 1000 characters);

File name "05.Abstract tesi"

the thesis of the specialist degree/master of science degree (or five-year degree), or in case such a thesis is not yet completed (see art. 2 above), its draft, indicating the title of the thesis and the name of supervisor.

N.B. that such a draft must contain most of the material to be contained in the final thesis, in terms of chapters and pages, so as to allow the evaluation committee to well judge its content and scientific value. In no case a short abstract will be accepted.

File name "06.Tesi"

- the proposal of a detailed three-year research project (Phd proposal research) indicating the scientific basis of proposal, the research objectives, the methods to be adopted; In any case, the program will not be subject to assessment by the Evaluation Committee, which will only check that the research program are relevant to the research areas identified in the proposed doctoral program;

File name "07.Proposta di ricerca"

- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

File name "08.Lettere presentazione 1"

File name "08.Lettere presentazione 2"

Only for candidates to the Ph.D. program in Risk, Environmental, Territorial and Building Development the following documents are also required:

- the three-year degree and specialist degree/master of science (or five-year degree) achieved, specifying the degree marks and the list of exams taken in the two courses of study (or in the five-year course of study) and the marks received, using the model **model provided by the Politecnico di Bari available at www.poliba.it** *Didattica/Offerta formativa/Dottorati di Ricerca*("Degree Self-declaration model with exams");

File name "04.Titoli di laurea"

- the title of the thesis and the name of supervisor, for the specialist degree/master of science degree (or five-year degree), together with a summary of the thesis (maximum 1000 characters);

File name "05.Abstract tesi"

- A report (maximum 2000 characters) which is to summarize a research topic to deal with specifying the objectives and the methods to be adopted; this report will be examined only for the purpose of admission and does not necessarily anticipate the research topic that the Ph.D. student must cover during the training;

File name "06.Proposta di ricerca"

- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

File name "07.Lettere presentazione 1"

File name "07.Lettere presentazione 2"

Only for candidates to the Ph.D. program in Architecture: Innovation and Heritage, the following documents are also required:

- the three-year degree and specialist degree/master of science (or five-year degree) achieved, specifying the degree marks and the list of exams taken in the two courses of study (or in the five-year course of study) and the marks received, using the **model provided by the Politecnico di Bari available at www.poliba.it** *Didattica/Offerta formativa/Dottorati di Ricerca("Degree Self-declaration model with exams")*;

File name "04.Titoli di laurea"

- the thesis of the specialist degree/master of science degree (or five-year degree), or in case such a thesis is not yet completed (see art.2), its draft, indicating the title of the thesis and the name of supervisor

N.B. As draft it is intended the text written by the person who is about to graduate until the date of the application, and its extent is suitable to represent the entire topic, specifying objectives and methods, to be evaluated by the selection Committee.

File name "05.Tesi"

- a motivation letter (maximum 3000 characters) indicating the research interest of the candidate, justifying his/her choice of the specific curriculum and, eventually, the research project proposed for the Ph.D. Program;

File name "06.lettera di motivazione"

- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

File name "07.Lettere presentazione 1"

File name "07.Lettere presentazione 2"

ONLINE INTERVIEW

Any candidate who opts for the online interview, on the admission application, can be video called through the Skype contact. In this case the candidate must previously show the coloured identity document whose photocopy was attached to the application.

In the application form, the candidate who opts for the online interview must indicate his/her telephone number and the Skype contact where to be video called for the entire period for the interview.

The choice of the online interview is at the candidate risk. If, for any reason except the direct responsibility of the *Politecnico di Bari*, the interview cannot take place at the established day and time, or the candidate does not show his ID before the interview, the candidate will be excluded from the admission selection.

Art. 4

Examinations and dates

The admission examination consists of:

Ph.D. program in Mechanical Engineering and Management:

- *An assessment of the qualification* achieved (average mark, final mark, theses, Master, post graduate courses, language certificates, publications, etc.);
- *Interview*, to ensure a proper assessment of the candidates;

Ph.D. program in Electrical and Information Engineering:

- *An assessment of the qualification* achieved (average mark, final mark, theses, Master, post graduate courses, language certificates, publications, etc.);
- *Interview*, to ensure a proper assessment of the candidates;

Ph.D. program in Risk and Environmental, Territorial and Building Development:

- *An assessment of the qualification* achieved (average mark, final mark, theses, Master, post graduate courses, language certificates, publications, etc.);
- *Interview*, to ensure a proper assessment of the candidates.

For such three Ph.D. programs, all belonging to the Doctoral School, each Admission Board will assess the candidates giving each a mark out of 100 (broken down in maximum 40 points for qualifications and maximum 60 points for the interview). Candidates obtaining less than ten points for qualifications are not admitted to the interview. The evaluation of the assessment of the qualification will be published on the ESSE3 platform, at the private area of each candidate. No communication will be thus sent to the candidates.

At the end of the procedure the Board will proceed with an overall assessment and publish the **results**.

A candidate is considered to be suitable if he/she achieves a total score of at least 70 out of 100 points. With the same score, the youngest candidate prevails, except as established by art. 6 below. The assessment criteria of qualifications will be set out by the Boards.

For the **Ph.D. program in Architecture: Innovation and Heritage**, the admission examination consists of:

- *An assessment of the held qualifications* (average mark, final mark, theses, Master, post graduate courses, language certificates, publications, etc.).

- *Written exam*: the candidate will select one topic among the following *curricula*:

Curriculum 1 – Culture of Building;

Building in the architectural and structural contemporary design: a) for new constructions; b) for existing buildings.

This curriculum provides two research tracks: a) ex novo architectural design; b) existing structures. The topics of the research track **a)** are: Shape and Structure in the architectural design of the XXI century; Design and construction in the architectural design of the XXI century; The architectural design of the XXI century: the shape invention in relation to its construction.

The topics of the research track **b)** are: Structural safety evaluation also with respect to the environmental characteristic and the seismic action; interventions for adapting, improving and repairing existing buildings by means of innovative materials and seismic protection systems.

Curriculum 2 – Architecture and restoration philological design

a) the Heritage of cultural landscapes and of the Italian urban historical ones;

Following explicitly Unesco's categories and Recommendation, (Cultural Landscapes e Historic Urban Landscapes/HUL) the Program examines the human settlements' systems of the Italian cultural landscape (specifically natural, territorial and urban), their permanent features and transformation processes.

Such a study aims at addressing the projects of conservation, reuse, restoration and enhancement of the architectural Italian heritage towards a possible reassessment of its various peculiarities.

The focus is on the method of philological restitution in the different fields where it can be carried out (territorial infrastructures, historic centres, archaeological contexts). All necessary instruments will be used (photogrammetric and 3D laser scanner survey, GIS supported design, survey of urban and territorial processes, study of traditional building techniques, projects of anastylosis, architectural reintegration and reconstruction). The research can cover also the regional architecture, the history of heritage and its communication (museology, sustainable tourism).

b) Architecture and power. Researches in architectural history;

The program aims at analyzing the relationship between power, in all its forms, and architecture in all its expressions. In fact, in every age and in every country monumental architecture (and not only that) was often representation or image of power or otherwise directly related to its different forms: the City, the emperor, the king, the Church, the noble, the State, the Republic, the dictatorship, etc.: therefore, the aim of the curriculum is to look into these issues, especially the complex and not always straightforward relationship between political will and architectural form and, in selected architectural examples of all ages, through comparative and in-depth analyses of the artifacts and their sources.

Curriculum 3 – Architecture design within an ancient country.

This curriculum conceives the architectural design within a wide field of disciplinary interaction, oriented toward comprehension, enhancement, and conservation of the built heritage.

The program focuses on revitalization and regeneration of historical heritage in order to reintegrate it in the context of present and future cultural and practical needs.

The study of territory, landscape, archeology, tectonics, contemporary urban morphology, is carried out through the following principal interrelated lines of research: the relation between the land form and the settlement scheme; designing within the ancient; the relation between tectonics and building; at the roots of modernity; urban textures between density and discontinuity; the complex architectural organism and its roots in history; Italian Rationalism; domestic space and modern housing.

- *An interview*, to ensure a proper assessment of the candidates in comparison with each other as well as to verify the applicant's aptitude towards research, his research interests as well as his interest in pursuing a research experience abroad.

For this Ph.d. program only, each Selection Committee will assess the candidates giving each a mark out of 90 (broken down in maximum 30 points for the assessed qualifications, maximum 30 points for the written exam and maximum 30 points for the interview—a minimum of 18 points being the passing mark for each). The results of the assessment qualification and of the written exam will be published on the ESSE3 platform, at the private area of each candidate. No communication will be thus sent to the candidates.

At the end of the procedure, the Selection Committee will proceed with an overall assessment and publish the results.

With the same score, except for what indicated at the following Art. 6, the youngest candidate
The assessment criteria of qualifications will be decided by each Selection Committee.

For all of the Ph.D. programs:

- the examinations aim at ascertaining the candidate's knowledge of the themes specific to each Ph.D. program as well as his/her aptitude for the research in its scientific and technology areas;
- the candidate must also show a good knowledge at least of English; this can be demonstrated either by possession of an official B2-level certificate, according to the Common European Framework for the Knowledge of Languages or within the interview;
- Foreign candidates must show a B1-level knowledge of Italian; this can be demonstrated either by possession of an official B1-level certificate, according to the Common European Framework for the Knowledge of Languages or within the interview;
- Exams can be taken either in Italian or in English for those candidates who have requested so in the online registration;
- The examinations will be held as follows:

Ph.D. PROGRAM	DATE	VENUE
MECHANICAL ENGINEERING AND MANAGEMENT	Interview: starting from 9.00 a.m., September 22, 2016	Aula sezione Macchine di Energetica del DMMM (main library building, third floor), via E. Orabona, 4, 70125 Bari (University Campus "E. Quagliariello")
ELECTRICAL AND INFORMATION ENGINEERING	Interview: starting from 9.00 a.m., September 23, 2016	Room 2, Department of Electrical and Information Engineering, via E. Orabona, 4, 70125 Bari (University Campus "E. Quagliariello")
RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT	Interview: starting from 9.00 a.m., September 21, 2016	Exam room, Water-Engineering building of the Department of civil, environmental, land, construction engineering, and chemistry. (DICATECh) via E. Orabona, 4 – 70125 Bari, (University Campus "E. Quagliariello")
ARCHITECTURE: INNOVATION AND HERITAGE	Written exam: starting from 9.00 a.m., September 19, 2016	Rooms "D" and "E", first floor of the Architecture building, the Department of Civil Engineering- and Architecture-Sciences , via E. Orabona, 4 – 70125 Bari, (University Campus "E. Quagliariello")
	Interview(*): starting from 3.00 p.m., September 22, 2016 (* In case of an exceptional number of candidates, interviews will follow the day after at 9.00 a.m.	Room "Giovannoni", third floor of the Architecture building, the Department of Civil Engineering- and Architecture-Sciences , via E. Orabona, 4 – 70125 Bari, (University Campus "E. Quagliariello")

Thus, no further notice relating to the examinations will be sent to candidates.

Any changes concerning the venue, day and time of the above mentioned examinations will be published in the Albo Ufficiale online of the *Politecnico di Bari* (www.poliba.it, path: *Albo online*), being the official notification, as well as on the website of the *Politecnico di Bari*, www.poliba.it, path: *Didattica/Offerta formativa/Dottorati di Ricerca*.

To take the examination, candidates must show the ID uploaded with the online application.

Failure to attend the examinations will be considered as withdrawal of the application.

Art. 5

Evaluation Committees and their obligations

The Rector appoints the Evaluation Committees by Rector's decree within 10 days after the applications submission deadline. Each Committees is composed of:

- the Coordinator or, if unavailable, a member of the Board, designated by the Coordinator.
- two or four members of the Board appointed by the Board itself (at least half of them professors or associate professors) belonging to different SSDs (research areas), also different from the coordinator's one.

The Board may indicate, in addition to the abovementioned members, at most two experts, Italian or

foreign, selected within public and private research institutions.

At the end of the selection process, each Evaluation Committee will draw the ranking list on the basis of the total score obtained by each candidate.

Art. 6

Rankings and Admission to Ph.D. programs

The Rector issues a decree stating the regularity of acts and indicates the names of the accepted candidates by approving the general ranking list (Decreto di approvazione atti).

Candidates are admitted to the courses following the order of the ranking list until completion of the available positions for each program.

The scholarships reserved to applicants with a foreign degree, if available, will be assigned to candidates with a foreign degree following the order of the ranking list. In the absence of eligible candidates, such scholarships will be added to the other ones for each corresponding Ph. D. Program.

Scholarships funded by the *Politecnico di Bari* or other public or private institutions will be assigned to the eligible candidates, as decided by the Board of Professors of each Ph.D. program according to the assessment of the interview and of the curriculum vitae of the candidates themselves.

In order to assign the scholarships funded by other public or private institutions, the Board of Professors of the corresponding Ph.D. Program may also include a consulting referee appointed by the funding institution.

Between candidates having the same score, a place with scholarship is assigned upon assessment of the economic situation, in accordance with Italian Council of Ministers Presidential Decree dated April, 9, 2001.

Between candidates having the same score, a place with scholarship is assigned to the younger candidate.

The general ranking list of the accepted candidates (Decreto di Approvazione Atti) will be published online on the Albo Ufficiale of the *Politecnico di Bari* (www.poliba.it, path: *Albo online*), being the official notification, as well as on the website of the *Politecnico di Bari*, www.poliba.it, path: *Didattica/offerta formativa/ Dottorati di Ricerca*.

Therefore accepted candidates will NOT receive any notice.

Art. 7

Enrolment

Within five days following the publication of the ranking list, candidates admitted to Ph.D. programs must enrol online on the ESSE3 platform, using the same credentials already used for admission selection.

Terms and regulations for enrolment will be published on the Albo Ufficiale of the *Politecnico di Bari* (www.poliba.it, path: *Albo online*), being the official notification, as well as on the website of the *Politecnico di Bari*, www.poliba.it, path: *Didattica/offerta formativa/dottorati di Ricerca* within the date of the aforementioned publication.

If an admitted candidate refuses admission or loses his/her right to admission before the beginning of the program, he/she will be replaced according to the ranking list. If a candidate is admitted to more than one program, he/she must opt for one of them. Candidates may be replaced within two months from the beginning of the program, not including the Christmas closing period of the *Politecnico di Bari*.

Completion of the enrollment will be made upon reception in due time of the fees and contributions, as specified in the ART. 11 below, by means of the MAV available on the personal area of the ESSE3 platform, after pre-enrolment. Each pre-enrolled student may look at and print such MAV by clicking *SEGRETERIA/PAGAMENTI*.

The back-office will control the submitted documentation.

Art. 8

Final exam and achievement of qualification

Students enrolled in a Ph.D. program will obtain the Ph.D. title after passing the final exam according to the rules laid down in the Regulations of the Ph.D. Programs of *Politecnico di Bari*, issued with Rector's Decree n. 286 dated July, 1, 2013.

Art. 9

Duties and rights of the Ph.D. students

Admission to the Ph.D. program requires an exclusive and full-time commitment, unless differently stated, according to art. 10 of the Regulations of the Ph.D. Programs of *Politecnico di Bari*, issued with Rector's Decree n. 286 dated 01/07/2013.

Ph.D. students, being an integral part of the training project, subject to the approval of the Board and without any increase of the scholarship, can carry out tutoring activities for students in a three year degree course or in a master's degree, as well as properly documented. supplementary teaching activities, within a maximum of forty hours in each academic year, After the third year of the program, the limit is repealed.

The scholarship is subject to the payment of separate management social security contributions (*GESTIONE SEPARATA INPS*) referred to in art. 2 (26), of the Italian Law dated August 8, 1995, n. 335, as amended, to the extent of two-thirds paid by the administration and one-third by the student. Students enjoy the related protections and rights. The PhD students with scholarship have to open such *GESTIONE SEPARATA INPS* position.

Public employees admitted to the programs enjoy, for the duration of the course, the extended leave provided for by collective bargaining or, for employees under public law, a special leave for study purposes, subject to the needs of the administration, in accordance with art. 2 of the Italian Law n. 476, dated August 13, 1984, as amended, with or without pay, explicitly refusal, only if enrolled in a program for the first time, regardless of the research area.

Provisions of Italian Legislative Decree dated March 29, 2012, n. 68 are extended to Ph.D. students. Suspension of attendance and scholarship is allowed to Ph.D. students, in the case of maternity leave, documented serious illness or in other cases provided for by applicable law. In particular, the Ph.D. students can benefit from the provisions regarding maternity leave pursuant to Italian Decree of the Minister of Labour and Social Welfare, dated July 12, 2007, published in the Official Journal n. 247 of October 23, 2007. In case of suspension for more than thirty days, the scholarship will not be granted for an equal period.

Ph.D. Students cannot be enrolled in any other Degree course unless within a Joint program.

Each Ph.D. student may submit a written motivated request to the Coordinator to ask for the replacement of his/her tutor. The Board must consider the request and, if accepts it, shall assign a new tutor to the student.

Art. 10

Scholarships

Scholarships are annual and are renewed provided that the student has completed the program of activities for the previous year, verified in accordance with the procedures laid down in the Regulation, and will be granted after passing the verification.

The amount of the scholarships, paid in monthly instalments, is initially determined no less than that prescribed by Italian Decree of the Minister dated 18/06/2008, published in the Official Journal n. 241 of 14/10/2008, namely, € 13.638,47, including the social security fees due by the percipient. This amount is increased by a maximum of 50 percent for no longer than 18 months, if the student is authorized by the Board to carry out research abroad.

Starting from the second year, within existing financial resources in the budget of the *Politecnico di Bari*, each Ph.D. student, with or without scholarship, is provided with a fund for research activities in Italy and abroad appropriate to the type of program and no less than 10 % of the scholarship. If a student loses or renounces the scholarship, the unused amount remains available to the institution, for the purposes mentioned above.

The same rules—stated for maintaining the scholarships in the program years subsequent to the first—will be applied to the apprenticeship contracts and other forms of financial support referred to in art. 8, par. 3, of the Regulations of the Ph.D. Programs of the *Politecnico di Bari*, issued with Rector's Decree n. 286 dated July 01, 2013.

The rules above do not apply to foreign Ph.D. students or grantees of financial support within specific mobility programs provided with their own regulations.

Scholarships are awarded after a comparative evaluation of merit and according to the order defined in the ranking lists. With a same score, the assessment of the economic situation prevails, in accordance with Italian Council of Ministers Presidential Decree dated 09/04/2001, published in the Official Journal of the Italian Republic n. 172, July 26, 2001.

Ph. D. scholarships cannot be summed to any other scholarship (including research grants) except those granted by Italian or foreign institutions to support the Ph.D. students abroad (except the scholarships ruled by the Italian law n. 398/89)

The annual personal income considered by the *Politecnico di Bari* as compatible with a scholarship is of € 12,000, including real-estate and financial income as well as any other source of recurring income, with the exception of occasional work.

Ph.D. students awarded with scholarships financed by external public or private bodies must obey the rules laid down by the relevant Conventions between such bodies and the *Politecnico di Bari*.

Art. 11

Fees and Contributions for admission and attendance of Ph.D. programs

Ph.D. students awarded with a scholarship are exempted from paying fees and contributions for admission and attendance of Ph.D. programs.

Ph.D. students without scholarship, including Ph.D. students who have refused the scholarship, are requested to pay fees and contributions for admission and attendance of Ph.D. programs, according to the Fees Regulation of the *Politecnico di Bari*, academic year 2016/2017, published on the Website www.poliba.it/Ateneo, *Statuto e Regolamenti*. For each of the following years, the amounts will be defined by the Fees Regulation of that year. Moreover, all Ph.D. students are required to pay the regional fees for the right to study to *ADISU/Politecnico*. The Italian Legislative Decree n. 68 dated 29/03/2012, in particular art. 18, obliges the regions to establish the level of the fees for the right to study to € 120, 140 and 160, depending on the income-level of the student.

The Regione Puglia, with art. 11 of Regional Law n. 45 dated December 28, 2012, established that starting from the academic year 2013/2014 there will be 3 levels of fees. The amount of the lowest level is € 120 and applies to those who have an income not higher than the minimum level of the equivalent economic indicator (EEI) corresponding to the eligibility requirements for access to

essential levels of performance (LEP) of the right to study. The other bands are € 140 and € 160 for those whose EEI are above the minimum level and twice the minimum level, respectively. The EEI benchmark is set at € 17.000.

Art. 12 Privacy Policy

According to the Italian Law n. 675/96, the confidential nature of the information provided by each candidate will be respected. All data provided will be used only for purposes connected with the selection call and, concerning the candidates admitted to the program, for the purposes related to the activities of The Ph. D. program, in compliance with current regulations.

However, Applicants, by participating to the call, permit that their personal data as well as those concerning their exams be published on the URL of the *Politecnico di Bari*, as allowed by the aforementioned Law.

According to the Italian Law dated August 7, 1990, n. 241 and to the Presidential Decree dated April 12 2006, n. 184, and later amendments, anybody having a legal interest can have access to the selection call documentation, according to the procedures indicated by current legal rules. Accordingly, any documentation provided by any applicant will be made available to the other ones.

Art. 13 Administrative referee

The administrative referee for this call is Dr. Anna Benegiamo, of the “Research and technology transfer office of the *Politecnico di Bari – Post Lauream Office* (anna.benegiamo@poliba.it – tel +390805962201) Bari, Via Amendola 126/B - floor II. .

Other contact persons are Dr. Marco Paternoster, at the same Office, (marco.paternoster@poliba.it - tel. +390805962507). And Dr. Rosanna Redavid (rosanna.redavid@poliba.it- tel +390805962250).

Art. 14 Reference Rules

For anything not expressly set out by this notice, reference is made to the rules contained in the Regulations of the Ph.D. Programs of *Politecnico di Bari*, issued with Rector’s Decree n. 286 dated 01/07/2013.

This selection call will be sent to the Ministry of Education, University and Research and will be published in the Official Journal of the Italian Republic and on the website of the *Politecnico di Bari* **www.poliba.it** (*Albo online*, as well as path: *Didattica /Offerta formativa/Dottorati di ricerca*).

Bari, July 14, 2016

THE RECTOR
Signed: Prof. Ing. Eugenio Di Sciascio