



POLITECNICO DI BARI
DIREZIONE DIDATTICA, RICERCA, TRASFERIMENTO TECNOLOGICO E
RELAZIONI INTERNAZIONALI
SETTORE RICERCA E TRASFERIMENTO TECNOLOGICO

**SELECTION CALL FOR ADMISSION TO
THE 31st CYCLE
OF THE RESEARCH DOCTORATE (Ph.D.) PROGRAMS
ACADEMIC YEAR 2015/2016**

Rector's Decree n. 415

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, as amended;
- 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", published in the Official Journal n. 104 dated May 6,

2013;

- 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 n. 4289, dated March 13, 2015, containing *operational indications on accreditation procedures of Ph.D. programs*, academic year 2015/2016";
- in accordance with the approval by the Board of the Ph.D. School of the proposals concerning the three Ph.D. programs of the Politecnico di Bari – 31st cycle, participating to the School;
- in accordance with the institution decree of the Consortium *ARGONAUTI*, approved by the Academic Senate on September 17, 2013;
- in accordance with the report of the University Evaluation Board dated May 7, 2015;
- in accordance with the resolutions of the Academic Senate dated March 30, 2015, May 5, 2015, June 22, 2015, and July 29, 2015;
- in accordance with the resolutions of the Administration Council dated March 30, 2015 and July 29, 2015;
- in accordance with the Convention with *EXPRIVIA S.p.A.*, which committed itself to grant one scholarship to the Ph.D. program in Electrical and Information Engineering so as to develop the research theme: *Intelligent systems for managing health data*.
- in accordance with the Convention with *G.E. AVIO S.r.l.*, which committed itself to grant one scholarship to the Ph.D. program in Electrical and Information Engineering, so as to develop the research theme: *Energy control and conversion systems for aeronautical applications*;
- in accordance with the Convention with *NUOVO PIGNONE 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: *Numerical study of centrifugal-pump off-design: prediction methods and validation*;
- in accordance with the Convention with **ENEA** –Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Sostenibile - Centro Ricerche Trisaia - sede Rotondella (MATERA), which committed itself to grant one scholarship to the Ph.D. program In Mechanical Engineering and Management, so as to develop the research theme: *Theoretical and experimental analysis for increasing the value of bio-energy resources for automotive applications and distributed energy production*;
- in accordance with the Convention with **TECNOLOGIE DIESEL e SISTEMI FRENANTI S.p.A** (Bosch), which committed itself to grant one scholarship to the Ph.D. program In Mechanical Engineering and Management, so as to develop the research theme: *Condition Monitoring and vibrational analysis on CNC machine tools of Grob-CP1H type and possibly Grob GP type*";
- provided the availability of funds for the scholarships partially or entirely funded by the Politecnico di Bari;

DECREES

ART. 1

Institution and Implementation

The Politecnico di Bari has opened the 31st cycle of the research doctorate (Ph.D.) programs, academic year 2015/2016.

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 total number of available positions;
- the number of available scholarships (without a specific theme);
- the number of available scholarships (with a specific research project);
- the number of available scholarships for applicants (from now on also called candidates) 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* and the number of scholarships available for each of them;
- 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

- Total number of available positions: **14**
- total number of available scholarships: **11**, including
- number of available scholarships awarded by the Politecnico di Bari: **7**
- number of available scholarships reserved to applicants with a foreign degree: **1**
- number of available scholarships awarded by Nuovo Pignone S.r.l. – GE Oil & Gas, Modugno (BA): **1**. Research theme: *Numerical study of centrifugal-pump off-design: prediction methods and validation*;
- number of available scholarships awarded by **ENEA** –Agenzia Nazionale per le Nuove Tecnologie, l’Energia e lo Sviluppo Sostenibile - Centro Ricerche Trisaia, Rotondella (MATERA) : **1**. Research theme: *Theoretical and experimental analysis for increasing the value of bio-energy resources for automotive applications and distributed energy production*;
- number of available scholarships awarded by Tecnologie Diesel e Sistemi Frenanti S.p.A (Bosch): **1**. Research theme: *“Condition Monitoring and vibrational analysis on CNC machine tools of Grob-CP1H type and possibly Grob GP type”*;
- 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**;
- commitment required: 3 solar years;
- 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

- Total number of available positions: **13**
- total number of available scholarships: **10**, including
- number of available scholarships awarded by the Politecnico di Bari: **7**
- number of available scholarships reserved to applicants with a foreign degree: **1**
- number of available scholarships awarded by Exprivia S.r.l., Molfetta (BA): **1**. Research theme: *Intelligent systems for managing health data. Brief description. The research to be performed aims at developing a gap-analysis for ascertaining and studying health scenarios*

about preventing, diagnosing and caring, as well as technological ones for distant managing them, thanks to a data-base and diagnosis decision-support system, leading to a knowledge basis directly available to the decision makers. In particular the research will focus on Complex Event Processing Systems.

- number of available scholarships awarded by G.E. AVIO S.r.l.: **1**. Research theme: *Energy control and conversion systems for aeronautical applications*;
 - 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**;
 - commitment required: 3 solar years;
 - 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

- Total number of available positions: **11**
- total number of available scholarships: **9**, including
- number of available scholarships awarded by the Politecnico di Bari: **7**
- number of available scholarships awarded by the Politecnico di Bari (with a specific-research project: reclamation, environmental improvements and redevelopment of the Taranto area): **1**;
- number of available scholarships reserved to applicants with a foreign degree: **1**
- 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**;
- commitment required: 3 solar years;
- compulsory foreign language: English.
- This Ph.D. program is not subdivided into curricula.

For this Ph.D. program all candidates, unless they renounce to the specific-research scholarship, will compete for all available positions. The Selection Committee will grant the specific research project on the basis of the documents presented by each candidate, his/her CV as well as the selection process outcome. The candidate who will be granted such a scholarship will have to develop the corresponding research program during his doctorate. In case the candidate renounces or is removed, the coordinator will assign the aforementioned scholarship to another eligible candidate according to similarity of his research program with the theme of the scholarship.

4. Ph.D in ARCHITECTURE: INNOVATION AND HERITAGE

In consortium with the Università di ROMA TRE.

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

Coordinator: Prof. Elisabetta PALLOTTINO

- Total number of available positions: **8**
- total number of available scholarships: **7**, including
- number of available scholarships awarded by the Politecnico di Bari: **3**
- number of available scholarships awarded by the Università degli Studi ROMA TRE: **4**
- number of positions without scholarship: **1**
- 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)

- commitment required: 3 solar years;
- compulsory foreign language: English.
- This Ph.D. program is subdivided into the following curricula.
- (link: http://architettura.uniroma3.it/?page_id=977)
- **Curriculum 1** – *Culture of Building*;
- **Curriculum 2** – *Architecture and restoration philological design*;
- **Curriculum 3** – *Architecture design within an ancient country*.
- -n. of scholarships for Curriculum n. 1: **2**
- -n. of scholarships for Curriculum n. 2: **3 + 1** position without scholarship
- -n. of scholarships for Curriculum n. 3: **2**

Candidates, under penalty of exclusion, can apply to only one of the above mentioned curricula.

There is only one selection, with separate ranking lists, one for each curriculum.

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 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 in the** Albo Pretorio of the Politecnico di Bari, **being the official notification, as well as on the website of the Politecnico di Bari** , www.poliba.it, path: *Didattica e Studenti/Offerta formativa/Dottorati di Ricerca*.

Art. 2

Requirements for Participation in the Selection

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, 2015. 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 Selection 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 and of the grades obtained in all such exams

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 14, 2015, using the procedure available on the website www.poliba.it, percorso: *didattica e studenti – 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 10, 2015, to August 21, 2015.

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 S3 system. Therefore those applicants who are not yet registered to S3, 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 S3 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 and the Curriculum, if provided, 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 *Didattica e Studenti/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 the name of the applicant and of the document type (e.g., Smith-Curriculum Vitae).
- 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. Applicants who wish to participate in the Ph. D. course in ARCHITECTURE: INNOVATION AND HERITAGE, offering more curricula may apply to one curriculum only.

According to the Presidential Decree n. 445, December 28, 2000, 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 e Studenti/Offerta formativa/Dottorati di Ricerca;**
2. **A duly signed valid ID (identifying document);**
3. a self-certification of any qualification 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 e Studenti/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);
4. **Any publication concerning their activity** and indicated in the CV.

All the above mentioned documentation 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 incomplete or lacking the mandatory titles application will be accepted

In case of bulky documents exceeding 5 MB or of documents unavailable as .pdf files, applicants may submit them separately, including a list of them, before 2 p.m. of September 17, 2015.

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 Didattica, Ricerca, Trasferimento Tecnologico e Relazioni Internazionali - 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 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 e Studenti/Offerta formativa/Dottorati di Ricerca;**
- 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);
- 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;

- no more than two letters of recommendation from professors who have supervised the candidate's university studies.

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*.

Only for candidates to the Ph.D. program in Electrical and Information Engineering 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 e Studenti/Offerta formativa/Dottorati di Ricerca*;
- the thesis of the specialist degree/master of science degree (or five-year degree), or in case such a thesis is not yet completed, its draft, indicating the title of the thesis and the name of supervisor, together with a summary of the thesis (maximum 1000 characters);
- 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 Selection Committee, which will only check that the research program are relevant to the research areas identified in the proposed doctoral program.
- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

Only for candidates to the Ph.D. program in Risk, Environmental, Territorial and Building Development 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 e Studenti/Offerta formativa/Dottorati di Ricerca*;
- 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);
- 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;
- no more than two letters of recommendation from professors who have supervised the candidate's university studies. Such letters are not mandatory.

Only for candidates to the Ph.D. program in Architecture: Innovation and Heritage

- 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 e Studenti/Offerta formativa/Dottorati di Ricerca*;
- the thesis of the specialist degree/master of science degree (or five-year degree), or in case such a thesis is not yet completed, its draft, indicating the title of the thesis and the name of supervisor;
- 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.

ONLINE INTERVIEW CHOICE

Candidates who opt 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 scheduled for the interviews.

Such an option is in the sole responsibility and risk of the candidate. A lacking or incorrect communication of the Skype address, as well as a missed connection, due to any malfunctioning not caused by the Politecnico di Bari at the time of the interview, as well as the lacked exhibition of the personal ID will cause the exclusion of the candidate from the competition.

Art. 4

Examinations and dates

The admission examination consists of:

Ph.D. program in Mechanical Engineering and Management:

- An assessment of the held qualifications (average mark, final mark, age, thesis title, language certificates, publications, etc.);
- An interview, to ensure a proper assessment of the candidates in comparison with each other.

Ph.D. program in Electrical and Information Engineering:

- An assessment of the held qualifications (average mark, final mark, age, thesis title, language certificates, publications, etc.);
- An interview, to ensure a proper assessment of the candidates in comparison with each other.

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

- An assessment of the held qualifications (average mark, final mark, age, thesis title, language certificates, publications, etc.);
- An interview, to ensure a proper assessment of the candidates in comparison with each other.

For the Ph. D. programs above, all belonging to the Doctoral School of the Politecnico di Bari, each Selection Committee will assess the candidates giving each a mark out of 100 (broken down in maximum 40 points for the assessed qualifications and maximum 60 points for the interview). The results of the assessment will be published on the Albo Pretorio of the Politecnico di Bari, **being the official notification**, as well as on the website of the Politecnico di Bari , www.poliba.it, path: *Didattica e Studenti/Offerta formativa/Dottorati di Ricerca*.

candidates receiving less than 10 points for their qualifications will not be admitted to the interview.

At the end of the procedure, the Committee 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, except for what indicated at the following Art. 6, the youngest candidate prevails.

The assessment criteria of qualifications will be decided by each Selection Committee.

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, age, thesis title, language certificates, publications, etc.);
- A different written exam for each curriculum. Such a written exam will concern the following topics:

Curriculum 1 – Culture of Building;

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

The topics of the research line 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 line 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; b) architecture and power.

Research line a). 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 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).

Research line b). 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; complex architectural organism and its roots in history; 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 and of the written exam will be published on the Albo Pretorio of the Politecnico di Bari, **being the official notification**, as well as on the website of the Politecnico di Bari , www.poliba.it, path: *Didattica e Studenti/Offerta formativa/Dottorati di Ricerca*.

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:

- Admission to the program is achieved thru a public competition aiming at evaluating the applicant's knowledge in the scientific area of the program, as well as his/her attitude towards research;
- the candidate must also show a good knowledge of the English language at least; Such a knowledge can be certified by official certificates of level B2 (such as the Cambridge FCE); in the absence of any such certificate, the candidate's English knowledge will be assessed during the colloquium
- the interviews are to assess the candidate's aptitude for the research in the scientific and technology areas and can relate to the general topic of the Ph.D. program.
- Foreign candidates must show a discrete knowledge of the Italian language (certified by an official certificate of level B1); in the absence of any such certificate, the candidate's Italian knowledge will be assessed during the colloquium

The examinations will be held as follows:

Ph.D. PROGRAM	DATE	VENUE
MECHANICAL ENGINEERING AND MANAGEMENT	Interview: September 29, 2015, starting at 9.00 a.m.	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: September 25, 2015, starting at 9.00 a.m.	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: October, 1, 2015. starting at 9.00 a.m.	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: September 23, 2015, starting at 9.00 a.m.	Large room A (of the former College of Engineering), via E. Orabona, 4 – 70125 Bari, (University Campus "E. Quagliariello")
	Interview: September 28, 2015,	Room "Giovannoni", third floor of the Architecture building, the Department of Civil

	starting at 9.00 a.m.	Engineering- and Architecture-Sciences ,), via E. Orabona, 4 – 70125 Bari, (University Campus “E. Quagliariello”)
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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 Pretorio of the Politecnico di Bari, being the official notification, as well as on the website of the Politecnico di Bari , www.poliba.it, path: *Didattica e Studenti/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

Selection Committees and their obligations

The Rector appoints the Selection Committees by Rector’s decree within 10 days after the applications submission deadline. Each Selection Committee is constituted by:

- a) the Coordinator or, if unavailable, by a member of the Board of Professors (Collegio dei docenti), from now onward called Board, designated by the Coordinator.
- b) 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 bodies and institutions.

At the end of the selection process, each Selection 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 (Fondo Giovani) 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 (public or private) will be assigned to the eligible candidates, as decided by the Board 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 the corresponding Ph.D. Program may also include a consulting referee appointed by the funding institution.

With the same score for a place with scholarship, the assessment of the economic situation prevails, in accordance with Italian Council of Ministers Presidential Decree dated April, 9, 2001.

With the same score for a place without scholarship, the youngest candidate prevails.

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

Therefore accepted candidates will NOT receive any notice.

Each admitted candidate must declare to the Politecnico di Bari if he/she intends to enroll and provide the documentation required as indicated in ART. 7 below, **within 5 working days after publication**, under penalty of losing of the right to admission to the Ph.D. program.

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.

The replacing candidate must send the admission application to the Politecnico di Bari and provide the documentation required within 5 working days from the day after receipt of the relevant communication. Failure to do so will result in the candidate losing the right to enroll.

Candidates may be replaced within two months from the beginning of the program.

ART. 7

Enrolment

Candidates admitted to Ph.D. programs must submit the following documentation to the Magnifico Rettore of the Politecnico di Bari – Direzione Didattica, Ricerca, Trasferimento Tecnologico e Relazioni Internazionali – Settore Ricerca e Trasferimento Tecnologico – Ufficio Dottorato di Ricerca- application form for enrolment in the 1st year of Ph.D. program declaring together with all of the required documents, according to the instructions that will be given immediately after publication of the ranking mentioned in the ART. 6 above, on the website of the Politecnico di Bari, Dottorati di Ricerca: *Didattica e Studenti/Offerta formativa*.

After verifying the aforementioned documents, the Politecnico di Bari will pre-enroll the winners on the website ESSE3 and will inform them so that they may start the courses.

Completion of the enrollment will be made by the offices of the Politecnico di Bari 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.

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 (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.

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 funded 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 2015/2016, with the exception of art. 6 and art. 7 of the same Regulation, 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, as specified in the 1st year registration form.

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 process and, for the candidates admitted to the program, for the purposes related to the activities of doctorate, in compliance with current regulations.

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 – Ph. D. Office (anna.benegiamo@poliba.it – tel +390805962201) Bari, Via Amendola 126/B - floor II. .

Other contact person is Dr. Marco Paternoster (marco.paternoster@poliba.it - tel. +390805962507).

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 ufficiale on line of the Politecnico di Bari as well as website path Ricerca, percorso: *Didattica e Studenti/Offerta formativa/Dottorati di ricerca*).

Bari, July 29, 2015

THE RECTOR
Prof. Ing. Eugenio Di Sciascio