

CALL FOR APPLICATIONS FOR THE AWARD OF RESEARCH FELLOWSHIPS  
Regulation on Research Fellowships pursuant to Italian Law no. 240/2010  
Politecnico di Bari, issued by Rectoral Decree no. 252 of 05/07/2016

Rectoral Decree no. 286/2020

### **Purpose**

Applications are invited for the selection running at:

**-n. 1 professional grant** research fellowship, for the execution of research activities within the project entitled: ***"Identification of methodologies to facilitate the digitization processes regarding the built heritage and the engagement of the subjects involved"***, according to the annexed Activity Programme:

*"The research has as its objective the innovation in the management processes of the public residential building heritage, a complex system in need of integrated Maintenance and Regeneration interventions; we intend to study and model the processes with the BPM methodology to improve information exchanges and data collection and provide a knowledge base of the assets useful for providing decision support. The project introduces the search for indicators useful for defining areas of social vulnerability"*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Sergio Bisciglia in a non-subordinate relationship with no set working hours.

The main place of work will be: Department of civil engineering and architecture of the Politecnico di Bari, Via Orabona 4 BARI, ITALY and Regional Section "Housing Policies".

**-n. 1 professional grant** research fellowship, for the execution of research activities within the project entitled: ***"Città & Campagna: guidelines for an integrated and sustainable project action of the Pact"***, according to the annexed Activity Programme:

*"The project plans to contribute to the construction of regional guidelines for the implementation of the PPTR's "Patto Città-Campagna" strategic scenario through a methodological path based on the evaluation of the current implementation methods of the Pact as a prerequisite for the classification of good practices and the formulation of exploratory projects at various scales that strengthen environmental sustainability and integration in urban planning. In fact, so far the research has focused on the form and contents of the landscape plans, deepening the cognitive and planning elements, the outlined scenarios and the devices used. Less usual is a perspective that also focuses on the implementation of the plan. Assuming this point of view is important in the case of PPTR also because of the particular attention paid to the relationship between elaboration and implementation that has characterized the landscape planning process in Puglia"*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Francesca Calace in a non-subordinate relationship with no set working hours.

The main place of work will be: Department of civil engineering and architecture of the Politecnico di Bari, Via Orabona 4 BARI, ITALY, and Regional section "Protecting and improving the landscape".

**-n. 1 professional grant research** fellowship, for the execution of research activities within the project entitled: ***"Innovative approach aimed to define coastal state property bounds"***, according to the annexed Activity Programme:

*"The project is aimed to set a chain of numerical model, able to predict shoreline time (years and decades) variation in the physiographic unit. The models will be based on depth-averaged wave flux able to describe wave evolution from deep water until the shoreline, including the evaluation of run up and flood. Model results will be hopefully calibrated with field and laboratory experimental results. The models will be*

*integrated in GIS environment, with the aim to visualize flood and state property maps, in order to optimize coastal zone management"*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Leonardo Damiani in a non-subordinate relationship with no set working hours.

The main place of work will be: Dicatech Department of the Politecnico di Bari of the Politecnico di Bari, Via Orabona 4 BARI, ITALY, and Regional section "Demanio and Heritage".

**-n. 1 professional grant research fellowship**, for the execution of research activities within the project entitled: ***"Esedra. new learning spaces for the contemporary school"***, according to the annexed Activity Programme:

*"The research project will aim to build a cognitive framework extended not only to the knowledge of the state of maintenance of the existing heritage, but above all to the knowledge of the historical-testimonial value, of their positional value in the urban area (with particular reference to peripheral areas) , their architectural quality and the potential for transformation, in order to define an integrated program of recovery / reuse and demolition / new construction interventions in the Three-year Plan for Regional School Building 2020-2022, ensuring the overall improvement of the "school" building"*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Michele Montemurro in a non-subordinate relationship with no set working hours.

The main place of work will be: Dicatech Department of the Politecnico di Bari, Via Orabona 4 BARI, ITALY, and Regional section "Education and Universities".

**-n. 1 professional grant research fellowship**, for the execution of research activities within the project entitled: ***"Methods and Models for analysis and forecasting of travel demand to support transport infrastructures planning"***, according to the annexed Activity Programme:

*"This project aims at studying methods and model for the simulation and analysis of current and future travel demand. In particular, will be specified mathematical models for the estimation/updating/adjustment of Origin-Destination matrices at Regional scale. The models will be based on data fusion and uncertainty treatment approaches."*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Michele Ottomanelli in a non-subordinate relationship with no set working hours.

The main place of work will be: Dicatech Department of the Politecnico di Bari, Via Orabona 4 BARI, ITALY, and Regional Section "Infrastructure for Mobility".

**-n. 1 professional grant research fellowship**, for the execution of research activities within the project entitled: ***"Development of a decision-support platform for seismic/geomorphological risk assessment and appraisal of mitigation measures based on the of collection and analysis of data related to hazard and vulnerability"***, according to the annexed Activity Programme:

*"The research work involves the development of an "intelligent" IT platform that contains information on the demand for natural events and the capacity of the infrastructure, ensuring mutual interaction. In particular, the following activities are required: 1. Collection and processing of data related to the hazard of the territory under study, known in scientific literature as hazard. 2. Collection and processing of data related to the regional infrastructural apparatus under study and evaluation. the collection and cataloguing of data relating to the dangerousness of the territory (with reference to the natural hazards of interest) and the characteristics of the elements of territorial criticality. 3. Survey in the field of civil works represented the typological classes previously defined and adequate filing. 4. Definition of simplified numerical models of the index works, sensitivity analysis and probabilistic analysis of the capacity of the models. 5. Definition of probabilistic distributions of damage (fragility curves) and loss (loss curves) on a regional scale. 6. Implementation of data on the web platform and layout of update capabilities. The results will be expressed fragility and loss curves on a regional scale, according to the criteria provided by*

*Performance Based Earthquake Engineering, which will provide the safety level of the simulated works. Finally, the platform will be prepared to be updated on the basis of the interventions proposed and implemented.”*

The call for applications for the research fellowship issued pursuant to the University Regulation issued by Rectoral Decree (D.R.) no. 252/2016.

The activities shall be carried out under the supervision of a tutor, Scientific Responsible Prof. Giuseppina Uva in a non-subordinate relationship with no set working hours.

The main place of work will be: Dicatech of the Politecnico di Bari, Via Orabona 4 BARI, ITALY and Regional section "Soil defense and seismic risk".

## Requirements for candidacy

The selection is open to candidates in possession of the following qualification:

Research title	Access requirements
Identification of methodologies to facilitate the digitization processes regarding the built heritage and the engagement of the subjects involved	Residence in Apulia region. Single cycle degree or second cycle degree in Architecture or engineering, achieved in the last five years
Città & Campagna: guidelines for an integrated and sustainable project action of the Pact	Residence in Apulia region. Single cycle degree or second cycle degree in Architecture, achieved in the last five years
Innovative approach aimed to define coastal state property bounds	Residence in Apulia region. Single cycle degree or second cycle degree in Civil and/or Environmental Engineering, achieved in the last five years
Esedra. new learning spaces for the contemporary school	Residence in Apulia region. Single cycle degree or second cycle degree in Architecture, achieved in the last five years
Methods and Models for analysis and forecasting of travel demand to support transport infrastructures planning	Residence in Apulia region. Single cycle degree or second cycle degree in Civil Engineering – Transportation, achieved in the last five years
Development of a decision-support platform for seismic/geomorphological risk assessment and appraisal of mitigation measures based on the of collection and analysis of data related to hazard and vulnerability	Residence in Apulia region. Single cycle degree or second cycle degree in Civil Engineering, achieved in the last five years

Candidates must possess the admission requirements on the deadline for submission of applications laid down in this call.

The selection is not open to any persons who are related by blood or by marriage up to the fourth degree, to a professor working in the department or structure for which the call is issued, or to the Rector, Director General or a member of the Board of Governors of the University.

The selection is also not open to anyone who has held research fellowship contracts with any institution, pursuant to Italian Law no. 240/2010, for a period which, summed to the foreseen duration of this contract, exceeds a total of 6 years, excluding any period in which the contract coincided with a PhD without scholarship, for the maximum limit of the legal duration of the PhD programme.

Furthermore the selection is not open to anyone who has had research fellowship or fixed-term researcher contracts at the Politecnico di Bari or any other state-funded, private-funded or distance learning Italian university pursuant to articles 22 and 24 of Italian Law 240/2010, or with any other body listed in paragraph 1 of Art. 22 of Italian Law 240/2010 for a period which, summed to the foreseen duration of this contract, exceeds a total of 12 years, even if not consecutive. For the purposes of the duration of the above-described periods, in compliance with the laws in force any periods of maternity or sick leave shall not be calculated.

### **Application**

The application for selection, in a sealed envelope and bearing the title indicated in the call for proposal for the Research Fellowship, addressed to the magnificent Rector of Politecnico di Bari, via Amendola 126/b, 70126 Bari, Italy, drawn up on unmarked paper (according to the annexed model), shall be delivered not later than **03/06/2020**.

Any applications received beyond the deadline will not be accepted.

The application may be presented:

- Shipping by e-mail PEC at: [politecnico.di.bari@legalmail.it](mailto:politecnico.di.bari@legalmail.it) not later than **03/06/2020**.

The structure shall assume no liability for the non-delivery of correspondence which is not the result of errors made by its own staff.

In the application the candidates must, under their own responsibility, indicate:

- surname and name;
- date and place of birth;
- nationality;
- residence and chosen address for correspondence for the purposes of this selection;
- that they do not have a criminal record and are not involved in any current criminal proceedings (or if so, state which);
- that they possess the qualification of..... in ....., obtained from..... on (date)..... (indicate the qualifications required as stated in article 2 of the call for applications

or

- that they possess an academic qualification obtained abroad, which is deemed equivalent.

The candidates in possession of a qualification obtained abroad must annex to their applications a translation into Italian of their foreign qualification, accompanied by a sworn statement that it is a faithful translation of the original certificate.

The foreign qualification may be declared admissible by the Evaluation Board, solely for the purposes of admission to the selection procedure.

In case of award, the winning candidates having obtained their qualification in a country outside of the European Union, must provide the Structure, in the same manner as laid down for the presentation of applications, the official translation with a declaration of value of the foreign qualification issued by the competent diplomatic representation or Italian consulate in their home country, in accordance with the applicable laws.

Candidates must enclose the following with their applications:

- Thesis;
- Their scientific and professional curriculum vitae;
- Research proposal;
- Receipt of payment of € 25,82 in favour of Politecnico di Bari, Via Amendola n. 126/b, 70126 BARI - ITALY, by bank transfer to bank account: 4172 UBI Banca Spa, via Toma 12, 70125 Bari, IBAN IT45X0311104001000000004172, BIC: BLOPIT22;
- certificates of all qualifications to be assessed according to art. 3 of this call for applications.

Academic and professional qualifications issued by Italian public administrations must be self-certified or submitted in an unstamped photocopy, as provided for in art. 15 of Italian law no. 183/2011, by way of a simple declaration of certification pursuant to articles 46 and 47 of Italian Presidential Decree (DPR) 445/2000.

Candidates are admitted to the selection procedure with reserve.

At any time, even after participation in any tests, the Administration may, with justification, exclude them from the selection procedure. The concerned candidate will be notified of such exclusion.

## ***Comparative assessment of the candidates and the Evaluation Board***

The candidates will be assessed comparatively by a Commission appointed by a Rectoral Decree, and formed by three professors of Politecnico di Bari.

The selection procedure focuses on the examination of the selection criteria laid down in advance by the Commission, the candidates' scientific-professional curriculum and the scientific work and publications resulting from the documents enclosed with the application as well as an interview, aiming to verify the suitability of the candidate for carrying out the research programme.

During the interview, the Commission will also verify the candidates' knowledge of the foreign language(s) required in the announcement on relevant sectoral topics.

The oral exam may be held also by using Skype. These applicants have to prove their identity to Commission by showing the colour ID document already attached in the application. In that case these candidates will also have to produce, together with the documentation pursuant to art. 3, Annex C duly filled.

Notice about date and location where the oral examination will be published on the online register praetorian (Albo pretorio) of the Politecnico of Bari.

To be admitted for interview, the candidates must show a valid ID document.

At the end of the selection procedure, the Board will draw up a list of candidates with relative scores, and the final ranking of the selection will be published on Politecnico's online register praetorian by a Rectoral Decree.

If two candidates receive the same scores, preference will be given to the younger candidate.

The successful candidate has to send to Politecnico di Bari, within 15 days starting from the day after of final ranking publication the following documents:

- a) declaration of acceptance of the research fellowship, by filling up the form available on [www.poliba.it/Ricerca/Assegni di Ricerca](http://www.poliba.it/Ricerca/Assegni di Ricerca);
- b) photocopy of ID documents
- c) photocopy of Italian fiscal code (if available).

### ***Duration and amount of the contract***

The contract has a duration of **24** months and may be renewed and/or extended in the terms laid down in the University Regulation concerning research fellowships, as issued by D.R. no. 252/2016.

The gross amount of the research fellowship contract is € 19.367,00 (professional), per annum. The amount is exempt of withholding tax and includes all statutory social security charges the Research Fellow is subject to.

The amount will be paid in deferred monthly payments.

Non-accumulation, incompatibility, leave

1. The position of research fellow is incompatible with the following positions:

- a) fixed-term and full-time staff employed by the bodies listed in art. 22 para. 1 of Italian Law no. 240/2010;
- b) persons employed by any private bodies, on a fixed term, permanent or part-time basis; For staff of any Public Administration other than those listed in letter a) refer to the provisions of point 2 below;
- c) persons with fixed-term research contracts with any university;
- d) adjunct professors with official teaching responsibilities in degree programmes or specialisation schools in any university;
- e) persons enrolled in any first, second or single cycle degree programmes, PhD programmes with scholarships or specialisation school. Self-funded research contracts are compatible with enrolments in non-medical specialisation schools, for which no study grant or contract is foreseen or master's degree only where authorised in advance by the structure Director, and having sought the opinion of the tutor.
- f) persons awarded research fellowships at any other body.

2. Employees of public administrations other than those listed in point a) with a fixed-term, permanent or part-time contract shall take unpaid leave of absence for the whole period of the research contract.

3. Freelance professional activities are compatible with the research fellowship contract where authorised in advance by scientific responsible and having verified that the activities in addition to the research fellowship do not prejudice the regular execution of the contract.

4. The accumulation of the research fellowship contract with study grants awarded for any purpose is not permitted, with the exception of those granted by national or foreign institutions for the purposes of integrating the research activities with study periods abroad.

5. The above requirements must be possessed from the moment of entry into force of the contract. The winning candidate shall sign a specific affidavit undertaking to notify the department of any variations in the declared situations as soon as they occur.

***Reference norms***

For any matters not laid down in this call for applications, refer to the “Politecnico di Bari Regulation for the awarding of grants for cooperation in research activities” by Rectoral Decree no. 252 dated 05.07.2016 and other statutory regulations in force.

The personal data provided by the candidates in their applications, pursuant to articles 7 and 13 of Italian Legislative Decree no. 196 of 30.06.03, shall be processed for the purposes of managing the selection procedure and the contract.

This call for applications will be published on the Politecnico di Bari Portal, on the MIUR website.  
Date 4/5/2020

The Rector  
Prof. Francesco Cupertino