



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

D.R. n. 181

Purpose

Applications are invited for the selection running at: Department of Civil, Environmental, Land, Construction and Chemistry and of the Politecnico di Bari for the award of:

-n.1 professional grant research fellowship, for the execution of research activities within the project entitled: *“Identification and proposal of innovative solutions for the creation of a software platform for the implementation of digital environments of augmented reality of architectural assets”*, according to the annexed Activity Programme:

“The research activity of the research fellow will focus on identifying and proposing innovative solutions for the creation of a software platform to meet the research objectives of the project in terms of the effectiveness of the information managed and manipulated and, at the same time, of user experience. The use of new technologies that deal virtual reality in fact requires new paradigms of interaction and editing of the contents themselves, which do not necessarily follow what is already present in the literature related to the design of the user experience.

In the specific case of VERBUM, a particular emphasis will also be placed by the researcher in the integration of knowledge from different sources and forms of information in order to propose a high-level application scheme that is semantically homogeneous. This application scheme will make it possible to integrate the created platform within other software ecosystems as well as to expose information through mobile solutions and those based on Web technologies.diagnostics”.

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. Cesare Verdoscia in a non-subordinate relationship with no set working hours.

The main place of work will be: Department of Civil, Environmental, Land, Construction and Chemistry and Department of Electrical and Information Engineering of the Politecnico di Bari of the Politecnico di Bari, VIA ORABONA,4 , BARI, ITALY

-n.1 professional grant research fellowship, for the execution of research activities within the project entitled: *“Definition of experimental protocols for the execution, processing and implementation of data deriving from knowledge, diagnostics and design activities for use in digital environments of augmented reality”*, according to the annexed Activity Programme:

“The research project intends to design, develop and validate a digital environment that allows an immersive experience in augmented virtual reality of architectural assets, as a tool for managing information in the recovery / restoration process, “vertical” with respect to the different methodological phases and “horizontal”, with respect to the different sources that identify each phase.

In this context, the research fellow will carry out the following activities:

- *Definition of acquisition tools for photogrammetric survey and processing methods for the construction of 3D models, also from drone.*
- *Definition of integrated non-destructive on-site diagnostics programs in relation to boundary conditions and investigation purposes.*
- *Historical research and direct survey of the material-constructive, technical-technological characteristics and of the state of conservation of a case study*
- *Conducting of survey activity, the diagnosis and planning of the interventions*

- *Analysis of the criticalities and potentials of applications on pilot cases, and development of a SWOT analysis diagnostics*
- *Formulation of the diagnosis and planning of the interventions*
- *Analysis of the criticalities and potentials of applications on pilot cases, and development of a SWOT analysis”*

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-n.1 professional grant research fellowship, for the execution of research activities within the project entitled: *“Elaboration and implementation of knowledge and diagnostics data and design for use in digital environments of augmented reality”*, according to the annexed Activity Programme:

“The research project intends to design, develop and validate a digital environment that allows an immersive experience in augmented virtual reality of architectural assets, as a tool for managing information in the recovery / restoration process, “vertical” with respect to the different methodological phases and “horizontal”, with respect to the different sources that identify each phase.

In this context, the research fellow will carry out the following activities:

- *Development of the organizational, applicative and technological elements of the information system underlying the digital environment.*
- *Development of tools for creating and editing environments and tours in virtual reality and augmented reality.*
- *Implementation of data related to a case study, within a digital environment in augmented virtual reality, for the purposes of subsequent assessments of reliability, effectiveness and compatibility.*
- *Analysis of the criticalities and potentials of applications on pilot cases, in order to develop a SWOT analysis*
- *Development of solutions to adapt / improve the functionality of the system.”*

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Requirements for candidacy

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

- *Degree in Computer engineering, automation engineering, telecommunications engineering, Computer science, physics, mathematics for position “Identification and proposal of innovative solutions for the creation of a software platform for the implementation of digital environments of augmented reality of architectural assets”;*
- *Degree in building Engineering; Degree in building Systems for position “Definition of experimental protocols for the execution, processing and implementation of data deriving from knowledge, diagnostics and design activities for use in digital environments of augmented reality”;*
- *Degree in building Engineering for position “Elaboration and implementation of knowledge and diagnostics data and design for use in digital environments of augmented reality”.*

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 03/04/2019.

Any applications received beyond the deadline will not be accepted.

The application may be presented:

- Shipping by registered mail with return receipt, not later than 03/04/2019 at: Politecnico di Bari, Via Amendola n. 126/B, 70126 Bari (Italia);
- Shipping by e-mail PEC at: politecnico.di.bari@legalmail.it not later than 03/04/2019.
- delivered by hand at Protocol Office of Politecnico di Bari, Via Amendola, 126/b - 70126 Bari – not later than 03/04/2019 at the following times: Monday. – Thursday From 10.00 to 12.00, Tuesday from 15,00 to 16,30

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:

- their scientific and professional curriculum vitae;
- thesis;
- 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.

Only for candidates residing or domiciled outside the Italian territory, upon their request, 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 Protocol office of Politecnico di Bari, Via Amendola n. 126/B, 70126 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;
- 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 **12 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 € 19.367,04 (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, 19/03/2019

The Rector
Prof. EUGENIO DI SCIASCIO

