

REP. N. 45/2022

DATE: 11/05/2022

THE ENGLISH LANGUAGE TRANSLATION OF THE CALL DOES NOT HAVE LEGAL VALUE IN ITSELF, THEREFORE DOES NOT SUPERSEDE THE ITALIAN VERSION OF THE CALL (BANDO).

The integral version is available at the following links:

<http://host.uniroma3.it/uffici/ricerca/assegni-di-ricerca.aspx>

Art.1

Pursuant to the "[Regolamento di Ateneo per gli assegni di ricerca](#)", a public selection process is established to award ONE grant for temporary research fellowship ("*assegno di ricerca*") for a period of 12 (twelve) months in the Department of Engineering:

"Simulation of the effects of excavation on historical masonry buildings"- entirely borne by the project POR FESR LAZIO 2014 – 2020 di cui all'Avviso " Gruppi di ricerca 2020" Det. G04052 del 04/04/2019- CUP F85F21001520009 - Codice Progetto POR A0375E0080

STAND project aims to improve the tools for estimating, assessing and monitoring the effects induced by underground works (excavations, tunnelling) on the historical-architectural heritage. Within such context, the research grant program includes the modelling of structures subject to tunnelling-induced foundation settlements, also considering soil-structure interaction. The research is aimed at improving the design and construction procedures of underground works and the methods of predicting the effects induced on structures. The results of the numerical simulations will be validated through the comparison with the evidence provided by structural monitoring, carried out within the project with innovative methodologies based on the processing of digital images and videos.

APPLICANT PROFILE:

The holder of the research grant will deal with the modelling and structural analysis of masonry buildings subject to foundation settlements induced by underground works, using finite element software programmes able to represent the non-linear mechanical behaviour of the masonry and of the ground, as well as to consider soil-structure interaction. The research fellow must be in possession of a PhD or equivalent title in the fields of Civil Engineering. In addition, experience is required on finite element modeling tools and on the construction of complex three-dimensional FEM models at the scale of the building. Knowledge of the most common programming languages (Matlab, Python) and the English language will constitute a preferential qualification in the selection. The research fellow will also cooperate with the researchers involved in the other WPs of the project, such as the one aimed at the development of innovative monitoring methods and the one dedicated to the application of the proposed methodologies to case studies, for the comparison of the data acquired in the field with the results of numerical simulations. **The evaluation test will be carried out by skype conference call.**

GROSS AMOUNT (paid in monthly installments), comprehensive of all fees due by the Administration): € 27.511,68

The allowances is subjected to:

- the provisions of the article 4 of Law 08/13/1984, n. 476 (fiscal treatment);
- the provisions of the article 2, paragraphs 26 and following of the law 08/08/1995, n. 335, as further amended (social security);
- the provisions of the article 1, paragraph 788, of Law 27/12/2006, n. 296, as further amended (sick leave);
- the provisions of the Decree of the Minister of Labour and Social Welfare 12/07/2007, published in Official Gazette no. 247 of 23/10/2007 (maternity).

Apart from the cases provided for and regulated by the above provisions, is possible to suspend the research activity for a pre-determined number of months. Suspension is given by the Board of the Department; at the end of the suspension the "*assegno di ricerca*" will resume or will be permanently stopped.

In all cases of suspension the payment is immediately interrupted until the date of resumption of the activities, certified by the Director of the Department.

In the case of anticipate conclusion of the research activity, the monthly installment will be paid proportionally.

Art.2

To participate in selection it is mandatory to have gained:

a PhD in Engineering or equivalent title in the fields of Civil Engineering.

Should the PhD, or the equivalent title, have been obtained abroad, the course must be declared equivalent, solely for selection purposes, by the Academic Senate of the University.

The candidate must possess the required qualification within the deadline specified in paragraph 3, under penalty of exclusion.

Art. 3

The signed and dated application form, compiled following the scheme available at the end of this Call (**ALLEGATO A**) must be sent by Electronic Certified Mail at ricerca.ingegneria@ateneo.uniroma3.it or by e-mail at ricerca.ingegneria@uniroma3.it HAVE TO ARRIVE within the final deadline of **June 8th 2022**, otherwise the applicant will be excluded.

Application must include:

- **appropriate scientific and professional curriculum demonstrating aptitude for research activities;**
- **autocertification for the Degrees (**ALLEGATO B**);**
- **(if any) list of other titles and or previous scientific publication (**ALLEGATO C**)**
- **Copy of a valid passport**

Art. 4

The Commission will define the criteria of the selection before proceeding with the evaluation.

Art. 5

1. The research grant cannot be awarded to students enrolled in undergraduate, Master, or medical specialization in Italy or abroad, and involves placement on unpaid leave for employee in service with public administrations other than those referred to in point .3 below.

2. Participation in selection is not allowed for spouses, relatives and kin up to and including the 4th degree of the:

- teaching staff of the Department which has issued this notice;
- Rector;
- General Director;
- Members of the Board of Directors.

3. Permanent employees of Universities, research and experimentation institutes or public bodies, the National Institute for New Technologies, Energy and Sustainable Economic Development (ENEA), the Italian Space Agency (ASI) and institutions whose scientific specialization qualifications have been recognized as equivalent to a Ph.D. pursuant to article 74, fourth paragraph, of Presidential Decree no. 382 of 11 July 1980, cannot participate in selection.

4. The research grant cannot be combined with any scholarships, except those awarded by national or foreign institutes to supplement research activities of said temporary research fellows with permanence abroad.

5. The grant for carrying out research activities is governed by a specific individual contract, based on the following criteria: flexibility in meeting the needs of the activity, continuity, time allocation (not sporadic), coordination with the overall activities of the Department, close relationship with the implementation of a research program, autonomous activity within the scope of the program and absence of pre-determined working hours.

Art. 5

For anything not exposed here must be considered laws and rules regarding the “assegni di ricerca”.

Any other information can be found on: <http://host.uniroma3.it/uffici/ricerca/assegni-di-ricerca.aspx>

Rome, 11/05/2022

Rep. N. 45/2022

IL DIRETTORE DEL DIPARTIMENTO

Signed

Prof. Andrea Benedetto

ALLEGATO A

APPLICATION FORM

Al Direttore del Dipartimento di Ingegneria
dell'Università degli Studi Roma Tre
Via Vito Volterra 62
00146 Roma

Il sottoscritto (name and surname)
nato a (born in) (.....) il (date)/...../.....,
residente in (city-nation of residence) -
Via (address)
Tel. Mobile. E-mail

CHIEDE

di partecipare al concorso pubblico per l'attribuzione dell'assegno relativo al programma di ricerca dal titolo

“Simulation of the effects of excavation on historical masonry buildings”

REP. N. **45/2022** da svolgersi presso il **Dipartimento di INGEGNERIA**

DICHIARA SOTTO LA PROPRIA RESPONSABILITÀ:

- 1) di essere cittadino (citizenship);
- 2) (**MASTER OF SCIENCE**) di possedere la laurea in e di averla conseguita
in data presso l'Università di con la votazione di
- 3) di non usufruire (o di impegnarsi a rinunciare qualora risultasse vincitore) di altre borse di studio a qualsiasi titolo conferite (con l'eccezione di quelle concesse da istituzioni nazionali o straniere utili ad integrare, con soggiorni all'estero, l'attività di ricerca) o di altro assegno di ricerca;
- 4) di non avere già usufruito di assegni di ricerca ex L. 240/2010 per un periodo complessivo superiore a 60 mesi;
- 5) di non essere dipendente di ruolo presso le Università, gli Osservatori Astronomici, Astrofisici e Vesuviani, gli Enti pubblici e le Istituzioni di ricerca di cui all'art. 8 del D.P.C.M. 30.12.93, n.593 e successive modificazioni e integrazioni, l'ENEA e l'ASI.
- 6) di non avere un grado di parentela o di affinità, fino al quarto grado compreso, con un professore appartenente al Dipartimento presso cui sarà svolto l'assegno ovvero con il Rettore, il Direttore Generale o un componente del Consiglio di Amministrazione dell'Ateneo.
- 7) di essere a conoscenza di tutte le norme contenute nel bando di concorso;
- 8) di impegnarsi a comunicare tempestivamente ogni eventuale cambiamento della propria residenza o del recapito.

Allega alla presente:

autocertificazione relativa alla laurea, con l'indicazione del titolo della tesi discussa e della votazione ottenuta in sede di esame di laurea. In caso di laurea ottenuta all'estero il titolo dovrà essere corredato dell'opportuna equivalenza o dovrà essere sottoposto al Consiglio di Dipartimento per il riconoscimento ai soli fini concorsuali – **ALLEGATO B**;
copia delle pubblicazioni e degli eventuali altri titoli ritenuti utili per il giudizio della Commissione;
dettagliato curriculum scientifico-professionale da cui risulti l'idoneità all'attività di ricerca da svolgersi.

Il/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.lgs. n. 196 del 30/06/03.

Date, _____

(Signature)

ALLEGATO B

AUTOCERTIFICATION FOR THE DEGREES

(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa")

Il sottoscritto (name and surname)
nato a (born in) (.....) il (date)/...../.....,
residente in (city-nation of residence) -
Via (address)
Tel. Mobile. E-mail

DICHIARA (OBBLIGATORIO)

1b. di aver conseguito la **LAUREA (MASTER OF SCIENCE)**
in
in data ____/____/____ c/o l'Università
rilasciata dalla Facoltà, con la votazione di ____/____ € (barrare in caso di LODE)

Il/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.Lgs. n. 196 del 30/06/03.

Date, _____

(Signature)

ALLEGARE FOTOCOPIA DI UN DOCUMENTO DI IDENTITA' (fronte - retro)

an ID card (or passport) MUST be enclosed

LIST OF OTHER TITLES OR PREVIOUS SCIENTIFIC PUBLICATION

(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa)

Il sottoscritto (**name and surname**)
nato a (**born in**) (.....) il (**date**)/...../.....,
residente in (**city-nation of residence**) –
Via (**address**)
Tel. Mobile. E-mail

DICHIARA CHE SONO PIENAMENTE CONFORMI AGLI ORIGINALI

le allegate copie dei seguenti titoli (**OTHER TITLES - that must be enclosed to the form**)

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)

nonché le allegate copie delle seguenti pubblicazioni (**SCIENTIFIC PUBLICATIONS - that must be enclosed to the form**)

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)
- k)
- l)
- m)
- n)

Il/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.Lgs. n. 196 del 30/06/03.

Date, _____

(Signature)