

**Rep n. 42**  
**07 June 2024**
**Prot n. 1453 -**

**THE ENGLISH LANGUAGE VERSION OF THE CALL DOES NOT HAVE LEGAL VALUE IN ITSELF, AND THUS 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 Architecture.

### Art. 2

<b>DURATION OF THE RESEARCH PROJECT TO WHICH THE GRANT REFERS</b>
<b>12 months (renewable)</b>
<b>TITLE OF THE ANNUAL POST-DOC RESEARCH PROGRAM</b>
<b>Structural analysis of an innovative multiband antenna system with focus on wind-induced stresses</b>
<b>DESCRIPTION OF THE ANNUAL POST-DOC RESEARCH PROGRAM</b>
<p>The research program for the Post-Doc is part of a broader project aimed at developing an innovative, portable, and low-cost multiband antenna system, characterized by high resistance to wind loads and an effective tracking system in the X and Ka bands. The antenna will be equipped with a movement system to allow proper orientation and signal management.</p> <p>The main activity of the research involves a thorough structural analysis of the components of the antenna system, with particular attention to wind-load actions. Specifically, to accurately estimate the interaction with the wind, CFD simulations will be necessary.</p> <p>The development of the new system components also requires detailed studies and analyses of structural stresses under various working conditions, with the development of new, specially created calculation models.</p> <p>The final goal of the ADELE project is the creation and validation of a system comparable to a pre-production model. This system, which will be validated through open-field tests, will finally require careful verification of the achieved performance, including from a structural standpoint, to ensure it meets the identified target specifications. The expected technology readiness level (TRL) at the end of the activities is 7.</p>
<b>SCIENTIFIC DISCIPLINARY SECTOR (ACADEMIC DISCIPLINES FOR ITALIAN UNIVERSITY RESEARCH AND TEACHING) OF THE RESEARCH PROGRAM</b>
<b>ICAR/08 - Scienza delle Costruzioni (<i>Structural Mechanics</i>)</b> (or CEAR-06/A, according to D.M. n. 639/2024 of 02/05/2024)
<b>REQUESTED CONTRIBUTION</b>

The candidate must hold a Master's Degree (or a single 5-years degree) in Engineering, specializing in Civil, Mechanical, Aeronautical, or Aerospace Engineering, and must demonstrate a strong profile in structural mechanics, with knowledge in computational mechanics, particularly the Finite Element Method (FEM). Graduates in Architecture will also be considered if their study plan and/or experiences show a strong orientation towards the study of structural behavior.

A PhD in related fields of study will be considered a preferential qualification.

The candidate, who will be required to perform structural modeling using the FEM methodology and process the results of the analyses, must demonstrate high proficiency in using the relevant calculation softwares. The primary software expected to be used for this work is Abaqus; however, candidates with skills in other structural calculation software, such as ANSYS, SAP2000, MidasGEN, Comsol Multiphysics, etc., will also be considered.

A significant portion of the research work may be conducted remotely.

**GROSS AMOUNT (PAID IN MONTHLY INSTALLMENTS) COMPREHENSIVE OF ALL FEES DUE BY THE ADMINISTRATION**

**€ 27.631,00**

The allowances are 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. 3**

To participate in selection it is mandatory to have achieved:

- A. possession of a Master's degree (or single-cycle degree) in Engineering, with specialization in Civil, Mechanical, Aeronautics or Aerospace** (level II or obtained according to the system prior to the entry into force of Ministerial Decree 509/99), obtained at an Italian university, or a qualification obtained abroad; in the latter case, unless recognition in Italy of the research doctorate qualification obtained abroad has been previously obtained, the declaration of equivalence to an Italian qualification will be necessary, for the sole purpose of participating in the competition; to this end, the application for participation must be accompanied by

documents useful to allow the declaration of equivalence in question by the Department Council:

- copy of the certificate of achievement of the foreign qualification, with the exams taken;
  - translation into Italian or English of the certificate (if the translation is not legalized according to current regulations, the self-declaration relating to conformity with the original of the translation itself must be attached).
- B. a proven and appropriate scientific and professional curriculum demonstrating aptitude for research activities, complete with attachments from which the suitability of the skills acquired for carrying out the research activity for which you are competing can be deduced.

The candidate must possess the required qualification within the deadline indicated in paragraph 4, under penalty of exclusion.

#### Art. 4

The signed and dated application forms, compiled following the template attached at the bottom of this Call (ANNEX A) must be received (in a single envelope for each position) no later than **09 July 2024** using one of the following methods:

- by Electronic Certified Mail at [architettura@ateneo.uniroma3.it](mailto:architettura@ateneo.uniroma3.it) or
- by Mail at [ricerca.architettura@uniroma3.it](mailto:ricerca.architettura@uniroma3.it) or
- Hand delivered to Dipartimento di Architettura - Area Ricerca - Via Aldo Manuzio 68L - 00153 ROMA, (from Monday to Thursday 10.30am-12.30pm and 3.00pm-4.00pm).

and **HAVE TO ARRIVE** within the final deadline of **09 July 2024** otherwise the applicant will be excluded.

Application must include:

- appropriate scientific and professional curriculum demonstrating aptitude for research activities;**
- (if any) **autocertification for the Degrees and Ph.D. (ANNEX B);**
- (if any) **list of other titles and or previous scientific publication**, and a self-declaration asserting that all the documents and the publications correspond to the originals (**ANNEX C**);
- Copy of a valid passport.**

#### Art. 5

The grants are awarded following a comparative evaluation based on the candidates' qualifications and an interview, which may take place via an online platform.

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

The selection process consists of two different phases:

- 1) the evaluation of the candidate profile based on titles, CV and any other provided documentation;
- 2) an oral interview.

The evaluation of qualifications and the interview can also be carried out electronically via the 'Microsoft Teams' platform. Candidates admitted to take the oral test will be summoned by the Department's Research Area by email sent BY EMAIL, from the PEC [architettura@ateneo.uniroma3.it](mailto:architettura@ateneo.uniroma3.it) or from the email [ricerca.architettura@uniroma3.it](mailto:ricerca.architettura@uniroma3.it) to the PEC addresses or e-mails indicated by the candidates. They must present themselves with a suitable and valid identification document.

Candidates with disabilities, pursuant to law 5 February 1992 n. 104, must make an explicit request in relation to their disability regarding the assistance necessary to be able to take the interview.

At the end of each interview session, the Commission will prepare a ranking of the candidates with the relative score, posted at the exam venue.

**The judgment of the Commission is unquestionable.**

The competition procedures conclude with the formulation of a ranking of the candidates with the relative final score. At the end of the selection procedure, the Director of the Department formalizes with his own decree the approval of the competition documents and the consequent identification of the winner of the grant, with whom the Director himself then stipulates the relevant contract.

**Art. 6**

1. The research grant cannot be awarded to students enrolled in undergraduate, Master, Ph.D 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. 7**

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>

**DIRECTOR OF THE DEPARTMENT**

Rep. 42

Rep. 1453/2024

f.to **prof. Giovanni Longobardi**

**This document conforms to the original is preserved in the  
Department's archives**

ANNEX A

APPLICATION FORM

Al Direttore del Dipartimento di Architettura  
dell'Università degli Studi Roma Tre

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 nell'ambito del progetto di  
ricerca ADELE (Advanced fEed eLement & tracking Equipment) dal titolo:

**'Analisi strutturale di un innovativo sistema d'antenna multibanda con focus  
sulle sollecitazioni da vento'**

(CUP: F99J23000720007 e con COR 16227305 - CUP Università degli Studi Roma Tre F83C23003510002)

**REP. N. 42 PROT. N. 1453 del 07/06/2024 da svolgersi presso il Dipartimento di  
Architettura**

DICHIARA SOTTO LA PROPRIA RESPONSABILITÀ:

- 1) di essere cittadino ..... (citizenship);
- 2) (MASTER OF) di possedere la laurea in ..... e di averla conseguita in data (date) ..... presso l'Università (University) di ..... con la votazione (final grades) di .....
- 3) di possedere il diploma di dottore di ricerca (PhD) ..... conseguito in data (date)....., presso l'Università (University) di.....;
- 4) 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;
- 5) di non avere già usufruito di assegni di ricerca ex L. 240/2010 per un periodo complessivo superiore a 60 mesi;
- 6) 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.

7) 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.

8) di essere a conoscenza di tutte le norme contenute nel bando di concorso;

9) 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**;
- autocertificazione relativa al possesso del titolo accademico di dottore di ricerca: in caso di titolo di livello dottorale conseguito 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)

**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)**

in .....

in data \_\_\_\_ / \_\_\_\_ / \_\_\_\_ c/o ..... l'Università

rilasciata dalla Facoltà ....., con la votazione di \_\_\_\_ / \_\_\_\_  (barrare in caso di LODE)

**DICHIARA INOLTRE**

di aver conseguito il titolo di Dottore di Ricerca (**PhD**) in ....., presso la sede amministrativa

di ....., avendo superato con esito positivo l'esame finale il giorno ....., discutendo la Tesi dal titolo:

.....

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)