

Rep. n.:26/2023 Prot. n.1741/2023

Date: November 27, 2023

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>

<http://matematicafisica.uniroma3.it//dipartimento/bandi-e-concorsi/bandi-per-assegni-di-ricerca/>

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- renewable – of **12 (twelve) months** in the Mathematics and Physics Department:

PROJECT TO WHICH THE GRANT REFERS

PRIN 2022 “Innovative mathematical models for soft matter and hierarchical materials” – CUP F53D23002830006

TITLE OF THE RESEARCH PROGRAMME OF THE ANNUAL GRANT:

Mathematical Modeling for Active Soft Matter

DESCRIPTION OF THE ANNUAL GRANT RESEARCH PROGRAMME

Mathematical modeling and numerical experiments for the dynamics of passive and active soft matter swollen by a solvent; study of diffusion in biological matter and its effects on the mechanical behavior.

The specific objective is to achieve a better comprehension of the effects of active contractions for the redistribution of liquids within swollen solids.

APPLICATION PROFILE

We require 2 skills:

- 1) Mathematical modeling for Continuum Physics, and in particular for continuum mechanics;
- 2) Working knowledge of numerical simulations and weak implementation of PDE systems.

Hiring interviews will be done on-line using Microsoft Teams.

Applicants must hold a Master degree in Mathematics, Physics, Engineering.

GROSS AMOUNT (paid in monthly installments): € 28.000,00 comprehensive of all fees due by the Administration.

The allowance is subjected to:

- the provisions of the article 4 of Law 13/08/1984, n. 476 (fiscal treatment);
- the provisions of article 2, paragraphs 26 and following, of the law 08/08/1995, n. 335, as further amended (social security);
- the provided in 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 the Official Gazette no. 247 of 23/10/2007 (maternity).

Apart from the cases provided for and regulated by the above provisions, it is possible to suspend the research activity for a pre-determined number of months. Suspensions are 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 restart of the activities, certified by the Head of the Department.

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

Art. 2

To participate to the selection, it is mandatory to have achieved:

- a **Master Degree in Mathematics, Physics, Engineering**, or equivalent title, obtained either in Italy or abroad. In the latter case the candidate must provide a copy of the Master certificate together with a list of exams and their grades and an English or Italian translation when the certificate is in another language. Unless the translation has legal value, the candidate should also attach a self-declaration asserting that the translation corresponds to the original.
- a **scientific and professional curriculum** suitable for carrying out the research activity for which the candidate is competing.

Should the PhD or Master Degree have been obtained abroad, the title should be declared equivalent, solely for selection purposes, by the Council of the Mathematics and Physics Department.

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

Art. 3

The signed and dated application form, compiled following the template attached at the bottom of the Call (**ANNEX A**) must be sent to the **Mathematics and Physics Department of Roma Tre University – Research Area** by ordinary e-mail to the address: amm.matematicafisica@uniroma3.it attaching a copy of a valid identity document and **MUST BE SUBMITTED** within the final deadline of **January 15, 2024**; otherwise the applicant will be excluded.

Application must include:

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

Art. 4

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

Art. 5

1. The research grant cannot be held by students enrolled in undergraduate, Master, Ph.D. or medical specialization in Italy or abroad, and involves placement on unpaid leave or employee with public administration other than those referred to in point .3 below.

2. Participation in the selection is not allowed for spouses, relatives and akin 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 Directors.
3. Permanent employees of Universities, Research 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 qualification have been recognized as equivalent to a Ph.D pursuant paragraph, of Presidential Decree no. 382 of July 1980, cannot participate in the 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. 6

For all matters not included here we refer to the laws and rules regarding the “[assegni di ricerca](#)”

Roma, November 27, 2023

Rep. N.26/2023

Head of Mathematics and Physics Department of Roma Tre University
Prof. Roberto Raimondi

ANNEX A

APPLICATION FORM

Head of Mathematics and Physics Department of Roma Tre University

The undersigned (name and surname) born in.....(.....) date....., place of residence..... (.....) post code C. F. (fiscal code)..... (if available) address for the competition: town.....(state.....) Street Post Code..... Telephone number Mobile Phone E-mail

ASKS

to participate in the competition for the assignment of the grant for the research program titled

“Mathematical Modeling for Active Soft Matter”

Rep. n.26/2023 Prot. n. 1741/2023 which will take place in the Mathematics and Physics Department

DECLARE UNDER ITS RESPONSIBILITY:

- 1) Citizenship.....;
- 2) declares to have obtained the degree in..... and obtained in date at the University of..... with the grade of
- 3) declares to have obtained the PhD in..... obtained in date, at the University of
- 4) To not receive any kind of other scholarships with the exception of those which are useful to integrate, with trip abroad, the research activity. Or to give up the above scholarship if she/he wins the contest.
- 5) To not have L.240/2010 research grants for a total period of more than 60 months.
- 6) To not be an official at the Universities, Astronomical Observatories , Astrophysical and Vesuvian , public bodies and institutions of research in art. 8 of D.P.C.M. 12/30/93, 593 and subsequent amendments and supplements, ENEA and ASI.
- 7) To not have a degree of consanguinity or affinity up to the fourth degree, with a professor at the Department in which the research grant will be carried out, and even with the Rector, the General Manager or a member of the Board of Governors.
- 8) To be aware of all the rules contained in the announcement.
- 9) To undertake to inform the University of any changes of their residence or address.

Attached:

- Personal declaration of graduation, indicating the title of the thesis discussed and the final mark. In the case of degree obtained abroad the title of the appropriate equivalence must be accompanied or to be submitted to the Department Council for recognizing the sole purpose insolvency - ANNEX B ;
- Declaration attesting the possession of a PhD; in the case of PhD obtained abroad the title of the appropriate equivalence must be accompanied or to be submitted to the Department Council for recognizing the sole purpose insolvency - ANNEX B ;
- (optional) List of publications and any other qualifications useful for the assessment of the Commission ;
- Detailed scientific and professional curriculum showing the suitability of the research activity to be carried out.

I authorize the Roma Tre University to the processing of personal data, in accordance with law . n . 196 of 30/06/03 .

Date, _____

(original signature)



ANNEX B

DECLARATION SUBSTITUTE FOR CERTIFICATE PREPARED IN SIMPLE PAPER
(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa")

The undersigned..... (C. F. fiscal number.....)

born in..... in date....., address.....

..... telephone number, mobile phone

e-mail aware that false declarations are punishable under the Criminal Code and other rules in force

DECLARE

1b. Please fill in this box if you obtained the degree from a non Italian University

declares to have obtained the degree in

obtained in date ____/____/____ at the University of _____

Faculty of _____, with the grade of ____/____

Please fill in this part only if you have already obtained a PhD

(optional)

2. declares to have obtained the PhD in.....,

at the University of

the PhD defense took place in date

the title of the PhD thesis is:

authorize the Roma Tre University to the processing of personal data, in accordance with law . n . 196 of 30/06/03 .

Date, _____

_____ (original signature)

Please attach a copy of an identification document, for example your passport



ANNEX C

DECLARATION SUBSTITUTE FOR CERTIFICATE PREPARED IN SIMPLE PAPER
(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa")

The undersigned..... (fiscal number)
born in..... (.....) in date....., address..... (.....)
Street, telephone number, Mobile phone.,
e-mail aware that false declarations are punishable under
the Criminal Code and other rules in force

**(DECLARES THAT ALL THE COPIES OF THE TITLES, OF THE PUBLICATIONS, AND ANY OTHER
QUALIFICATIONS ATTACHED TO THIS APPLICATION FORM ARE FULLY COMPLIANT WITH
ORIGINAL.)**

I authorize the Roma Tre University to the processing of personal data, in accordance with law . n . 196 of 30/06/03 .

Date, _____

(original signature)