

REP. N.: 1550
DATE: 25/11/2019

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:

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 Department of Mathematics and Physics:

RESEARCH PROJECT:

Measurement of the Higgs boson self-coupling with the ATLAS experiment and at future particle colliders

The research program concerns the measurement of the Higgs boson self-coupling using single Higgs-boson and double Higgs-boson production with proton-proton collisions in the ATLAS experiment, and, in addition, the study of the associated production of the Z and H bosons in e+ e- colliders like CEPC (Circular Electron Positron Collider) and FCC-ee (Future Circular Collider - e+ e-).

APPLICATION PROFILE

The candidate must have spent at least three years after the master-degree (including fellows and phd research projects) in a high energy physics experiment and he/she should have worked on data analysis of the Higgs boson and Higgs boson pairs. The candidate will analyse data of the ATLAS experiment acquired during the Run-2 of LHC combining them with public data from the CMS experiment and with electroweak precision measurements from the Large Electron Positron Collider. In addition, the candidate should study the ZH production at an electron-positron collider working at a centre-of-mass energy of 240 GeV.

GROSS AMOUNT (paid in monthly installments): € **23.787,00** comprehensive of all fees due by the Administration.

The allowances 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, 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

The signed and dated application form, compiled following the scheme available at the end of this Call (**ALLEGATO A**) must be addressed to the **Università degli Studi Roma Tre – Dipartimento di Matematica e Fisica – Area Ricerca – Stanza 002 - L.go San Leonardo Murialdo 1 - Palazzina C - 00146 Roma**, sent via postal service, express courier or hand delivered (FROM Monday to Friday, from 9 am to 1 pm) HAVE TO ARRIVE within the final deadline of december 20; 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**).**

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, 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 selection is not allowed for spouses, relatives and kin up to and including the 4th degree of the:
 - Teaching staff off the Department which has issued this notice;
 - Rector;
 - General Director;
 - Members of Board 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 qualification have been recognized as equivalent to a Ph.D pursuant paragraph, of Presidential Decree no. 382 of 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”.

Roma, 25/11/2019

Rep. N 1550

IL DIRETTORE DEL DIPARTIMENTO
Prof. Roberto Raimondi

ANNEX A

APPLICATION FORM

The Director of the Department of Mathematics and Physics
University of Roma Tre

The undersigned (name and surname) born in (.....)

()

date, place of residence..... (.....) post code – C. F. (fiscal code)

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

“Measurement of the Higgs boson self-coupling with the ATLAS experiment and at future particle colliders”.

REP. N. which will take place in the **Department of Mathematics and Physics**

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 win 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 ;
- Copies 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....., adress

..... 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 no 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

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:

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)

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

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....., adress (.....)
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)