



il Direttore

Subject: public competition for the award of n.1 research grant ("GRANT" typology), in the frame of the H2020 project called NEWTON-g (Grant Agreement number: 801221; Call. H2020-FETOPEN-1-2016-2017); title of the research: "Application of new instruments for gravity measurements to the study and monitoring of active volcanoes"

Call n. 12/2018

THE DIRECTOR

Having regard to all the relevant decrees, directives and rules (refer to the Italian version of the call);

Given the request for the activation of a selection for the provision of research grant, in the frame of the H2020 project called NEWTON-g (Grant Agreement number: 801221; Call. H2020-FETOPEN-1-2016-2017), approved by the competent authority on 4 October 2018 (prot. n. 2071);

Given the funding available for the above project;

DECREES

A public competition is hold, based on qualifications and interview, which may be taken remotely, using suitable applications, for the award of n.1 research grant ("Grant" typology), lasting 12 months and renewable on yearly basis, to be carried out at the Istituto Nazionale di Geofisica e Vulcanologia – Sezione di Catania, Osservatorio Etneo, in the framework of the H2020 project called NEWTON-g (Grant Agreement number: 801221; Call. H2020-FETOPEN-1-2016-2017), whose reference number in the INGV project database is 917.

Art. 1

Subject of the research

The title of the research is: "*Application of new instruments for gravity measurements to the study and monitoring of active volcanoes*". The research will be carried out under the scientific responsibility of Dr. Daniele Carbone.

The main objective of the project is the development of an innovative system for gravity measurements. The high cost and operating features associated with current instrumentation seriously limits the practical field use of gravimetry. NEWTON-g aims at developing a field-compatible gravity imager able to real-time monitor the evolution of the subsurface mass changes. This system will include an array of low-costs MEMS-based relative gravimeters anchored on an absolute quantum gravimeter and will provide imaging of gravity changes, associated with variations in subsurface fluid properties, with unparalleled spatio-temporal resolution. During the last two years of the project, the new gravity imager will be field-tested at Etna volcano, where frequent gravity fluctuations, easy access to the active structures and the presence of a multiparameter monitoring system ensure an excellent natural laboratory for





testing the new tools. Insights from the new gravity imager will be used for volcanic hazards analysis, to demonstrate the importance of gravity to problems of societal relevance.

Supervisor: Daniele Carbone (INGV – Sezione di Catania, Osservatorio Etneo);

Co-supervisors: Filippo Greco e Flavio Cannavò (INGV – Sezione di Catania, Osservatorio Etneo).

Art. 2

Salary and duration

The annual gross salary is Euro 40.421,00 and will be paid in monthly deferred instalments.

Allowance apply, in tax matters, the provision of art. 4 of the Law 13 August 1984, n. 476 and further modifications and integrations; as for social security matters, the provisions of art. 2, commi 26 and followings, of Law 8 August 1995, n. 335 and successive modifications; as for maternity leave, the provision of *Decreto del Ministro del Lavoro e della previdenza sociale* dated 12 July 2007; as for occupational disease matters, art. 1, comma 788, of Law 27 December 2006, n. 296 and further modifications.

The grant will last 1 year and will be renewable on yearly basis, in accordance with the provision of art. 22, par. 3, of Law 240/2010 and following modifications reported in art. 6, par. 2-bis, of Law n. 11 of 27/02/2015

Art. 3

Requirements for eligibility

Applicants for the position must hold all the following qualifications, under penalty of exclusion:

- a) an advanced degree (M.Sc. or equivalent) in Earth Sciences, Geophysics, Physics or Engineering, obtained in Italy or abroad;
- b) Ph.D in Geophysics or similar disciplines;
- c) experience in the acquisition, analysis and interpretation of geophysical data;
- d) excellent knowledge of English language, both written and spoken;
- e) proved experience with programming languages used for scientific calculation and computation, with specific competence in the development of software tools aimed at analyzing geophysical time-series.

The lack of even one of the above requirements implies exclusion from the selection.

The following characteristics will be considered as additional assets:

- f) good knowledge of methods used to process gravity data;
- g) good knowledge of the Italian language;
- h) experience in working autonomously within multidisciplinary groups
- i) publications in high-impact international journals.

Qualifications obtained abroad, that are not previously and officially recognized in Italy, will be considered by the Selection Board only for the aims of this selection.

Applicants must have obtained their qualification before the selection announcement deadline.

INGV guarantees equal gender opportunities for the provision of the grants, as well as protection of personal data, according to the current laws.





Art. 4 **Incompatibilities**

The following qualifications involve exclusion from this selection procedure:

- to hold a permanent position at a public University, Institute or Research Centre; or a permanent position at Enea or at the Italian Space Agency; or a permanent position at one of the other institutions referred to in art. 22, par. 1, of the Law n. 240/2010; or a permanent position at an institution providing diplomas that are regarded as being equivalent to a doctoral degree, according to art. 74, par. 4, of the n. 382 issued on 11 July 1980;
- to hold a research grant issued by a public administration different from those listed at the previous point, or by a private company, unless such research grant is interrupted or suspended through unpaid leave for the entire duration of the present contract;

As in art. 22, par. 3 of Law 240/2010, the present grant cannot be held while being enrolled in degree programs or courses providing a grant either in Italy or abroad.

The present research grant cannot be added to other grants provided by INGV or other research institutes.

INGV employees with either a permanent or non-permanent contracts cannot hold the present research grant, nor can hold it employees of other institutes referred to in art. 22, par. 1, of Law n. 240/2010.

Art. 5 **Application for admission**

The application form (Attachment A), under penalty of exclusion from this selection, must be signed by the applicant and must be received by INGV – Osservatorio Etneo, Sezione di Catania, no later than the 15th day past the day of publication of the present call on the official website of INGV (www.ingv.it) and on the MIUR's "Albo Ufficiale". The application form must be returned by one of the following methods:

1. as a signed pdf file to the email address aoo.catania@pec.ingv.it, using a PEC (*Posta Elettronica Certificata*) email;
2. **only non-Italian citizens, that are not eligible for the use of the PEC**, are allowed to use personal email, instead of the PEC email, and should send the pdf file to the email address direttore.oe@ingv.it;
3. the application form can be delivered by hand to the Catania Section of INGV – Piazza Roma 2. 95125 Catania, ITALY.

The application form must be addressed to the attention of the **Director of the Osservatorio Etneo - Sezione di Catania dell'INGV – Piazza Roma 2, 95125 Catania**. The following sentence must be reported in the subject of the email, in the case where e-mail is used, or in the envelope of the letter, in the case where the application form can be delivered by hand: "SELEZIONE PER ASSEGNO DI RICERCA GRANT - Avviso n. 12/2018".

In the case of hand delivery of the application form, the Ufficio Protocollo dell'Amministrazione, open to the public between 10:00 and 12:30 of all working days (Saturdays excluded) will issue a receipt to the applicant. Should the deadline fall on a holiday, it will be postponed to the following business day.

All communications concerning the present selection procedure will be sent to the candidates exclusively by email.





il Direttore

The application form must also contain the email address to which the applicant will receive all the documents and information related to the selection (under penalty of exclusion).

The INGV administration does not assume any liability for failure or delay in notifying changes of the address reported in the application, nor for any communication delay attributable to third parties, unforeseen circumstances or force majeure.

Disable candidates can indicate the requested support in the application for the admission.

In the application, the candidates must declare, under their own responsibility and under penalty of exclusion from the selection in case of failure:

1. full name, date and place of birth, residence and citizenship;
2. educational qualifications, including evaluations, dates, and Institutions that issued them;
3. PhD held, including date of achievement and University that awarded it;
4. to possess all the requirements at point 3) of this document, from letter a to e;
5. to have no criminal convictions and no pending criminal proceedings. Otherwise, they must specify the ongoing proceedings and the passed sentences, the dates of judgements and the judicial issuing authority;
6. to possess political rights (only for citizens in the European Union);
7. not to be employed by a public institution or private company, and in any case, not to receive a grant in Italy or abroad; in the case they hold a grant, to engage to produce documentation attesting to the suspension of the grant before the date of start of this research contract and for its entire duration;
8. list of attached titles, if any;
9. the email address to which the candidate will be contacted for any communication regarding the selection;

The following documents must be attached to the applicant form:

1. *Curriculum vitae et studiorum*, signed and dated;
2. a clear, legible photocopy of the passport or other identity card, which contains a photograph and which is recognized by the European Commission. This document is essential for verifying the identity of the candidate before the interview;
3. EU member citizens must fill the statements made under Art.s 46 and 47 of the D.P.R. 28/12/2000 N. 445 (Attachment B).

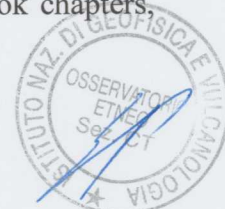
Further information and clarification can be obtained by contacting daniele.carbone@ingv.it.

Art. 6

Titles for evaluation

The Selection Board will evaluate the Curriculum vitae et studiorum, in Italian or English, that should specify any fact and qualities, including level of knowledge of English. The CV must include the followings:

- studies undertaken and qualifications obtained with the relative dates and evaluations;
- duties, functions performed, positions held and their duration;
- any other technical, scientific, didactic or professional activity and experience;
- list of scientific publications, technical reports, monographs, books, book chapters, patents, etc.;





il Direttore

- any other supporting document that the applicant considers relevant to the evaluation.

Qualifications must be possessed on the date of closure established for the presentation of the application form.

EU Member State citizens must self-declare that the information in their CV is true and accurate, through filling the form in Attachment B (statements made under Art.s 46 and 47 of the D.P.R. 28/12/2000 N. 445).

The titles reported in the CV should be documented according to the following:

- publications, technical reports, monographs, books, book chapters, patents, etc., should not be attached as a copy to the application form, if they are available over the web, or they can be identified through a DOI, providing that the exact web address and/or DOI is reported. Publications, technical reports, monographs, books, book chapters, patents, etc., including degree theses that are sufficiently described in the CV will be evaluated based on that description, even if written in a language other than Italian or English, without the need to be attached;
- for any other document:
 - for European citizens: documents and titles issued by public institutions of a Member state of the European Union should not be attached, rather, they should be listed in the self-declaration form provided as Attachment B. Copies of documents and titles issued by the public administrations of a non-Member State, as well as of documents and titles issued by other institutions should be attached. Attached titles must be listed in the self-declaration form provided as Attachment B. Documents and title certifications written in a language other than Italian or English must be supported by a translation in English;
 - for non-European citizens regularly residing in Italy: documents and titles issued by Italian public institutions must not be attached, rather, listed in the self-declaration form provided as Attachment B. Copies of documents and titles issued by public institutions of a non-Member State, as well as of documents and titles provided by private institutions, must be attached. Documents and title certifications written in a language other than Italian or English must be supported by a translation in English;
 - for all other non-European citizens: copies of documents and titles must be attached. Documents and title certifications written in a language other than Italian or English must be supported by a translation in English.

Misleading and deceiving declarations and submission of false documents shall be punished under the Italian Penal Code and special Laws, according to the art. 76 of D.P.R. 445/2000. INGV, according to art. 71, and in conformity to arts. 75 and 76 of D.P.R. 445/2000 and following integrations and modifications, verifies the correctness of the declarations submitted by the applicants.





Art. 7

Exclusion from the selection

Candidates are admitted conditionally to the selection. The Director of the Section of Catania of INGV can exclude from the selection a candidate, on the basis of a rightful motivation, at any time. The exclusion will be communicated to the candidate.

Art. 8

Selection Board

The Selection Board is appointed by the Director of the Catania Section of INGV, and is composed of three members chosen among researchers, technologists and experts from INGV or other Institutions, one with the role of Selection Board President. The Recording Secretary may be selected among the members of the Selection Board.

Art. 9

Selection Modalities

The Selection Board establishes preliminarily the criteria and parameters that will be used to evaluate the candidates, and reports them in formal documents. Successively, the Selection Board proceeds to a comparative evaluation of the candidates, through the analysis of their CVs, titles and documentation attached to the submission form, as well as through an interview aimed at evaluating the background of the candidates and their knowledge of the research themes reported in art. 1. The interview can be conducted in Italian or in English; if it is conducted in Italian, the Selection Board will verify the knowledge of the English language of the candidate.

The interviews will take place at INGV - Osservatorio Etneo, Sezione di Catania, Piazza Roma, 2 – 95125 Catania, Italy. Candidates will be informed of the day and time of the interview only by email, using the communicated address, with at least 15 calendar days' notice.

Interview may be conducted using video conference applications (e.g., SKYPE). Candidates who undertake this option, must explicitly indicate that in the application form and indicate a valid SKYPE account. The interview will be conducted after official identification of the candidate, who must present or show in front of the webcam the same valid passport/ID, whose copy was attached to the application.

Candidates will be excluded from the selection procedure in case they do not show up on the day and at the time previously communicated by the Selection Board, or in case they cannot be contacted by SHYPE at the account they indicated.

Following all the interviews, the Selection Board will compile a ranked list, based on the results of the interview of each candidate, that shall be publicly affixed at INGV Sezione di Catania.

Art. 10

Ranking of candidates and awarding of the research contract

The Selection Board determines a merit ranking by summing up, for each candidate, the rank from the titles to the rank from the interview.

The merit ranking is approved through a specific act of the Director of INGV Sezione di





il Direttore

Catania and is published on the website of INGV.

Within 15 days from the publication of the final results, the General Director of INGV communicates to the successful candidate the assignment of the research grant, as well as the start date of the contract. The successful candidate must deliver within 15 days from notice of the grant assignment, and under penalty of forfeiture, a declaration of acceptance in Italian or in English, in plain paper, in which he states that none of the incompatibilities reported within art. 4 hold.

A successful candidate who fails to communicate acceptance of the job within the requested deadline, or who is not present at the start date of the contract, is dismissed by INGV, on its own motion. Delays in the start date of the contract can only be accepted in case of duly certified medical reasons or maternity leave. The appointment is conferred with private contract; it does not represent an employment relationship and does not give rights regarding access to employment positions at INGV.

Art. 11

Rights and responsibilities

The appointed researcher should comply with fulfillments required by INGV for this kind of research grants.

Research activities will be developed in the frame of the H2020 Project NEWTON-g.

To the aims and objectives of the foreseen activities, the appointed researcher has full access to the infrastructures, instruments and services available at the headquarters where he/she is assigned, according to the applicable rules and regulations drawn up by INGV.

Work trips in the frame of the planned research activities are subject to written authorization by the scientific responsible and by the Section Director; the related cost may be reimbursed under the current INGV regulations.

The research activities can be partly carried out at an Italian or foreign University or Research Organization other than INGV, under their certification, provided that the stay is consistent with the aims of the research, and under formal authorization of the Section Director, based on the motivated proposal of the Scientific Responsible.

Art. 12

Forfeiture and termination

Procedures for termination of the contract may be started at any moment during the appointment, in case the granted researcher fails to regularly and continuously prosecute his/her activities without justification, or if the granted researcher is responsible of serious and repeated failures or shortcomings. The procedures for termination require duly motivated request by the Scientific Responsible, and must be approved by the General Director.

Art. 13

Advertisement of the selection procedure and Final Rules

The present call is advertised on the INGV official board and by publication on the website of INGV and MIUR. For matters not covered in this announcement, reference is made to the applicable laws and regulations.





il Direttore

Art. 14
Personal Data Handling

INGV will process the personal data provided by the applicant for this selection procedure in accordance with the Legislative Decree 196/2003 and the EU's General Data Protection Regulation (GDPR) 2016/679. Personal data collected will be processed for the sole purposes connected with and instrumental to the selection procedure and the eventual management of the job contact.

Catania, 26/10/18

I.N.G.V. - Osservatorio Etneo
Sez. CT
IL DIRETTORE
(Dr. Eugenio Privitera)



il Direttore

APPLICATION FORM

K.A. Director
of the Section of Catania – Osservatorio Etneo
Istituto Nazionale di Geofisica e Vulcanologia
Piazza Roma 2 – 95125
Catania – ITALIA

Subject: Application to participate to a public selection for a research contract, reference:
“SELEZIONE PER ASSEGNO DI RICERCA GRANT - Avviso n. ____/2018”
Sezione di Catania, Osservatorio Etneo

The undersigned (name, surname) _____

Born in (town, country) _____

Birth date (dd/mm/yyyy) _____

Resident in (address, postal code, town, Country) _____

_____ email address entitled for the purpose of this call _____

ASKS

according to art. 22 of Law 240 of 30/12/2010, to be admitted to the selection for the award of n.1 research grant (“Grant” typology) regarding “*Application of new instruments for gravity measurements to the study and monitoring of active volcanoes*”, to be carried out at the Istituto Nazionale di Geofisica e Vulcanologia – Sezione di Catania, Osservatorio Etneo, in the framework of the H2020 project called NEWTON-g.

To that end, he/she declares under his/her responsibility, according to arts. 46 and 47 of the DPR 28/12/2000 n. 445 and aware of criminal penalties in case of false declaration as from art. 76 of DPR 28/12/2000 n. 445, to:

- possess the following citizenship _____;



il Direttore

- (only for European citizens) to be in possess of political rights;
- possess _____ the _____ following degree _____ obtained _____ at _____ on (dd/mm/yyyy) _____ evaluation _____;
- possess _____ a _____ PhD _____ in _____ earned _____ at _____ on (dd/mm/yyyy) _____
- possess the requirements stated at art. 3, letters a) to e) of this call;
- have no prior criminal conviction and no current criminal proceeding (otherwise, state pending proceeding and/or passed sentences, their date and the Judicial Authority who issued them);
- not to be permanently or temporarily employed at INGV;
- not to be permanently employed by the institutions referred to in art. 22, par. 1 of Law n. 240/2010;
- not to be enrolled in a PhD;
- or
- to be enrolled in the following PhD course _____ and, in case he/she is awarded the present contract, to produce the documentation attesting the suspension of the grant, before the start of the research contract;
- to possess excellent command of the English language, both written and spoken;
- to commit to timely communicate any change in the above contact details.

(Only if required)

The candidate requires to be interviewed by videoconference, using SKYPE with webcam; to this aim, the candidate declares following SKYPE nickname _____



il Direttore

to which he/she commits to be contacted on the day and at time established and duly communicated by the Evaluation Committee.

I attach the following documents:

1. Curriculum vitae et studiorum, duly signed, compiled according to art. 6 of the present call;
2. readable copy of the passport or of a European recognized ID with photo;
3. *(continue listing all attached documents, according to art. 6 of the present call)* _____

I hereby agree to allow processing of my personal data, according to the Legislative Decree 30/06/2003 n. 196 and the EU's General Data Protection Regulation (GDPR) 2016/679, for the scope of the present selection.

Place _____ Date _____

Signature _____



il Direttore

STATEMENT MADE UNDER ARTICLES 46 and 47 of the D.P.R. 28/12/2000 N. 445

I, _____ the _____ undersigned _____ (name, surname) _____
Born _____ in _____ (town, country) _____
Birth _____ date _____
(dd/mm/yyyy) _____
Resident _____ in _____ (address, postal code, town, Country) _____

Aware of the penalties in case of false statement, or using forged documents, referred to in art. 76 of Presidential Decree n. 445 of December, 2000,

DECLARE

- a) (only for citizens of a State Member of the European Commission) that all the information given in my application form and *Curriculum vitae* is true and accurate;
- b) (only if copies of documents are provided and for the case indicated in art. 6 of the notice n. 50/2012) that the copies of the following documents attached to the application form are faithful copies of the original documents:
(list the documents for which copies are provided)

I declare to be informed, in accordance with and for the purposes of art. 18 of the Legislative Decree n. 196/2003, that personal data will be treated, even by computer, only in the proceeding for which this statement is made.



il Direttore

Place _____ Date _____

Signature _____

N.B.

1. date and sign all the pages in the statement;
2. attach to the statement a clear, legible photocopy of the passport or other identity card, which contains a photograph and which is recognized by the European Commission;
3. the documents provided with the statement must be supplied with all relevant reference