

Call for the selection for provision of research contract

Call nr. 05/2020/BO

The Director

GIVEN the Legislative Decree 29/9/1999, n. 381 of the National Institute of Geophysics and Volcanology;

GIVEN the law 27 September 2007, n.165. concerning the "Delegation to the Government regarding the reorganization of Research Bodies";

GIVEN the Legislative Decree 31 December 2009, n. 213 containing "Reorganization of research bodies in implementation of art. 1 of the law 27 September 2007 n. 165 ";

CONSIDERING the Statute of the INGV, approved with resolution no.114/2020 published in G.U. General Series n. 264 of 24/10/2020;

GIVEN the D.P.R. 28/12/2000 n. 445 and subsequent amendments, concerning "T.U. of the legislative provisions and regulations on administrative documentation ";

GIVEN the Legislative Decree 30 June 2003, n. 196, concerning "Code regarding the protection of personal data";

Given the Ministerial Decree no. 102 of 09/03/2011, relating to the definition of the minimum amount of research grants;

CONSIDERING the directive of the Minister of Public Administration and Simplification n. 14/2011 for the application of the new provisions on certificates and substitute declarations pursuant to art. 15 of the law 12 November 2011, n. 183;

GIVEN the art. 22 of Law 30/12/2010, n. 240 "Research grants";

GIVEN the integrated Three-year Performance, Anticorruption and Transparency Plan of the INGV 2020 - 2022 approved with Resolution of the Board of Directors no. 18/2020 of 01/30/2020;

CONSIDERING the Presidential Decree of INGV n. 11 of 29/01/2019 with which the Regulations for the awarding of research grants for carrying out research activities are issued;

CONSIDERING the Presidential Decree n.32 / 2020 (Prot. Gen. -U n. 0004340 of 09/04/2020) concerning "Disciplinary approval for the electronic implementation of the selective procedures for the awarding of research grants and grants of study";

GIVEN the Decree of the Director of Personnel Affairs n. 418 of 26/08/2019 of appointment of Director of the Bologna Section to dr. Antonio Costa, starting from 01/09/2019 and for the duration of a three-year period;

HAVING REGARD to the request for the activation of a selection for a GRANT research grant in the scientific activities related to the ERC project "Newton - NEw Windown inTO Earth's iNterior" by Dr. Andrea Morelli;

GIVEN the activation request for n. 1 Grant research grant, issued by the General Director on 10/12/2020, protocol 0003237 ;

Given the funding available for such Project

DECREES

A selective procedure is launched, for qualifications and interview by teleconference, for the

awarding of 1 research grant of the "Grant" type, lasting 24 months, for carrying out research activities to be carried out at the National Institute of Geophysics and Volcanology - Section of Bologna, under the scientific responsibility of Dr. Andrea Morelli.

Art. 1

Research grant subject

The title of the research is: "*Forward simulation and inversion of the complete seismic wave field, combining seismological and geodynamic modelling in areas of convergent margin*".

The requested activities will be the following:

- 1) numerical simulation of seismic wave propagation in 3D anisotropic media with realistic structure and elastic properties, provided by geodynamic simulations, around subduction zones
- 2) inversion of seismic observations to fully couple seismological and geodynamic modelling and better determine structure and dynamics of the upper mantle near convergent margins

The research activity will be carried on at the INGV offices in Bologna.

Art. 2

Start, duration and salary

The gross annual remuneration is set at 27,240.00 Euros (twenty-seven thousand two hundred and forty / 00 Euros) net of the costs borne by the employer, unless adjustments are made if there are variations on the minimum amount fixed in the ministerial setting, and will be paid in monthly instalments postponed..

Tax allowances are subject to the provisions of art. 4 of the law of 13 August 1984, n. 476 and subsequent amendments and additions, as well as, as regards social security, those pursuant to art. 2, paragraphs 26 and following, of the law 8 August 1995, n. 335 and subsequent amendments, in the matter of mandatory abstention for maternity, the provisions of the Decree of the Minister of Labor and Social Security 12 July 2007 and on sick leave, art. 1, paragraph 788, of the Law of 27 December 2006, n. 296 and subsequent amendments.

The grant has a duration of **24 months**, subject to annual verification of the activity carried out.

Art. 3

Requirements for eligibility

For admission to the selection, possession is required, in addition to all the requirements provided by law for access to public employment, of the following requirements under penalty of exclusion:

- a) PhD in a physical, geophysical or earth science discipline or equivalent qualification obtained abroad; and/or proven, three-year, post-graduate experience in treatment and simulation of seismological data in full waveform;

- b) Specialist or Master's Degree or (Italian) Old Order Degree in a physical, geophysical or earth science discipline; or equivalent qualification obtained abroad;
- c) proven experience in the analysis of seismic data and in their numerical modelling *comprovata esperienza nell'analisi di dati sismici e nell'inversione di forme d'onda "full-waveform*
- d) competence in computational seismology
- e) experience with software for numerical modelling of the propagation of seismic waves;
- f) experience in programming and numerical calculation techniques;
- g) knowledge of English to be verified during the interview.

The lack of even one of the aforementioned requirements involves the exclusion from the selection at any time of the procedure.

The qualifications obtained abroad must normally be previously recognized in Italy according to the legislation in force on the matter. The equivalence of qualifications obtained abroad that have not already been recognized in Italy will be assessed by the Selection Committee only for the purpose of admitting the candidate to this selection notice.

The requirements must be met on the expiry date of the deadline established for the submission of applications for admission to this selection.

The INGV guarantees equality and equal opportunities between men and women for the allocation of the grant in question, and the protection of the confidentiality of the processing of personal data, according to the provisions in force.

Art. 4

Incompatibilities

The following qualifications involve exclusion from the selection procedures:

- have a permanent position at a public University, Institute or Research Centre; or permanent position at ENEA or at the Italian Space Agency; or a permanent position at one of the other institution referred at art. 22, par1, of the Law n. 240/2010; or 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 D.P.R. n. 382 of 11/07/1980;
- be a research grant holder employed by a public administration different from those listed at the previous point or employed by a private company, in case such research grant is not interrupted or suspended through unpaid leave for the entire duration of the present contract;
- be an employee at INGV, either with or without permanent position;
- be enrolled in degree programs, Ph.D courses providing a grant; University masters, either in Italy or abroad;
- The present research grant cannot be combined with others grants provided by INGV or by other research institutes.

Pursuant to art. 22, co 3, of Law 240/2010, the ownership of the allowance is not compatible with participation in degree courses, specialist or master's degree, research doctorate with scholarship, university masters, in Italy and abroad. Research grants cannot be combined with scholarships in any capacity awarded by INGV or other research bodies or institutions. Research grant holders can attend research doctorate courses that do not give rise to scholarships.

Art. 5

Application for Admission

The application for participation in the selection, drawn up on plain paper according to the attached scheme (Annex A) and signed by the candidate, under penalty of exclusion, must be sent to the

INGV Bologna Section within the peremptory deadline of 15 days from the following day at the date of publication of this announcement on the INGV website www.ingv.it, in the manner and within the terms provided for in the selection announcement:

- 1) in pdf format from certified e-mail address (PEC) to aoo.bologna@pec.ingv.it, The email must have the following wording: "**Selection for GRANT research fellowship - Call n 05/2020/ BO**". For the purpose of ascertaining the production of applications, the date and time of arrival will be taken as proof of the certified email manager of the INGV Bologna Section (receipt of delivery). It is the responsibility of the candidate to verify the receipt on their PEC of this confirmation, issued by the telematic system, as proof that the message has been correctly delivered to the recipient in good time.
- 2) Only and exclusively for foreign citizens residing abroad, or residing in Italy, but not entitled to use the PEC, sending the signed application, from an uncertified e-mail address to the protocol aoo.bologna@pec.ingv.it.

If the deadline falls on a public holiday, the deadline slips to the first useful working day

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

The Administration does not assume any responsibility in case of unavailability of the recipient and for loss of communications dependent on failure, late or inaccurate communication or unclear transcription by the candidate of the email address indicated in the application.

Any changes must be promptly communicated to the Administration of the INGV Section of Bologna, to the attention of Ms Loredana Vicini exclusively by electronic means at the address loredana.vicini@ingv.it

Under penalty of exclusion, the application must be signed with a handwritten signature and is not subject to authentication.

Candidates with disabilities, in relation to their disability, in the application for participation in the selection must make an explicit request for the necessary aid.

In the application, the applicants must declare, under their own responsibility, and subject to exclusion from the selection in case of failure:

- 1) full name, date and place of birth, residence and citizenship;
- 2) Italian tax payer's code (for Italian citizens or foreigners who have it)
- 3) educational qualifications, including evaluation, date and University at which they were obtained;
- 4) to have no criminal convictions and no pending criminal proceedings. Otherwise, indicate the ongoing proceedings and the sentences passed, the dates of judgments and judicial authority which issued;
- 5) to possess the requirements at point 3) of this document, from letter a) to g)
- 6) to possess political rights (only for citizens of 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 a grant is instead received, to engage to produce documentation attesting to the suspension of the grant before the date of start of the research contract and for its entire duration;

- 8) Their Skype account;
- 9) the email address at which they chose to receive communications.

The following documents must be attached to the applicant form, under penalty of exclusion:

- 1) CV drawn up according to the European format in Italian or English, dated and signed by the interested party on each page;
- 2) list of titles attached if any;
- 3) a clear, legible photocopy of the passport or other identity card which contains a photograph and which is recognised in the European Union. This copy is essential for identity verification during the interview;
- 4) only for citizens belonging to member states of the European Union substitute declaration of certification and deed of notoriety (attachment B) pursuant to articles 46 and 47 of the Presidential Decree n. 445/2000.
- 5) declaration of the total duration of all work contracts of which the candidate benefitted with Italian public research institutions, according to art.22, comma 9, L. n. 240/2010 (limitation on total duration of "assegni di ricerca")

Art. 6 Titles for evaluation

The evaluation is reserved to the Selection Committee. The CV will be evaluated, drawn up according to the European format in Italian or English, where the states, facts, personal qualities, and in particular:

- Studies undertaken and qualifications obtained with the relative dates and evaluations;
- The duties, functions performed, the position 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;
- Any other supporting information or document that the applicant considers may be relevant for evaluation.

The candidate must attach to the application the documents and qualifications that he believes may be evaluated.

EU Member State citizens must declare that the information posted in their CV is true and accurate, by compiling the form in attachment B.

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

- Publications, technical reports, monographs, books, book chapter, patents, etc, should not be attached to the application form if they are available in the web or they are identified through a DOI number; in such cases the exact web address or the DOI number should be provided. Publications, technical reports, monographs, books, book chapters, patents, etc including degrees theses that are sufficiently described in the CV will be evaluated based on that description, even if prepared in language different from Italian or English, without need to be attached;
- For any other document:

for citizens of the European Union: the documents and titles issued by public administrations belonging to a member state of the European Union will not have to be attached but will be listed in

a substitute declaration of certification and deed of notoriety, pursuant to articles 46 and 47 of the Presidential Decree n. 445/2000, to be filled in using the form in Annex B. The documents and titles issued by administrations belonging to states not belonging to the European Union, or by private EU or non-EU individuals, must be produced in original or in copy; the titles produced in copy must be listed in a substitute declaration of certification and deed of notoriety, pursuant to articles 19 and 47 of the Presidential Decree n. 445/2000, to be filled in using the form in Annex B. Titles written in a language other than Italian or English must be accompanied by an English translation;

for non-EU citizens legally residing in Italy: the documents and titles issued by Italian public administrations may not be produced but listed in a substitute declaration of certification and deed of notoriety, pursuant to articles 46 and 47 of the Presidential Decree n. 445/2000, to be filled in using the model in Annex B. The documents and titles issued by public administrations belonging to states outside the European Union, or by private EU or non-EU individuals, must be produced in original or copy. Titles written in a language other than Italian or English must be accompanied by an English translation;

for all other non-EU citizens: The documents and titles must be produced in original or in copy (also digitally). Titles written in a language other than Italian or English must be accompanied by an English translation.

False declarations shall be punished under the Penal Code and corresponding special laws according to the art. 76, of D.P.R 445/2000. INGV, according to art. 71 and following arts. 75 and 76 of D.P.R 445/2000 and following integrations and modifications verifies the correctness of the declaration provided.

Art. 7

Exclusion from the selection

Candidates are admitted conditionally to the selection. The Director of the INGV Sezione di Bologna can exclude from the selection a candidate on the basis of rightful motivations at any time. Exclusion will not be notified to candidates, following Article 13 of INGV Regulations for the assignment of research grants.

Art. 8

Selection Committee

The Selection Committee is appointed by the Director of the Sezione di Bologna, and is composed of three members chosen among researchers, technologists and experts from INGV or from outside it, one with the role of Selection Committee President and one with the role of the Recording Secretary. The Recording Secretary may be selected among the members of the Selection Committee.

Art. 9

Selection modalities

The Selection Committee preliminarily adopts the criteria and parameters to which it intends to comply, with specific reference to the characteristics of the project, formalizing them in the relative

minutes, in order to assign the relative scores.

Candidates must bring a valid identity document in order to be interviewed and will be excluded from the selection procedure in case they do not show up at the time previously communicated by the selection Committee.

The Committee can meet in person or in teleconference.

The Commission carries out a comparative evaluation of the candidates by examining the qualifications and a specific interview, which will focus on the research topics referred to in Article 1 of this call, on the qualifications presented by the candidate and will include verifying knowledge of the English language.

The date of the interview will be communicated to the candidates for PEC at the address provided with at least 15 days' notice.

the same will take place by videoconference by creating a special link on the "Skype" digital platform with Webcam.

If technical connection problems occur during the interview:

- a) in the event that the connection problem concerns one or more commissioners, the interview is postponed ex officio to another date;
- b) in the event that the connection problem concerns the candidate admitted to the interview, the committee may reasonably postpone the interview to another date, in compliance with the principles of non-discrimination and equal treatment between candidates.

To this end, candidates, at the time of the interview, must show the same identification document attached to the application. Once the day of the interview has been decided, the Google Meet link will be made available on the INGV's institutional website for direct streaming of the interview. Failure to connect or the unavailability of the candidate on the day and / or time established for the interview, or the failure to show the identification document already sent in the attachment to the application or other recognition document will be considered waiver of participation in the interview, and therefore at the selection, whatever the cause.

The Commission ends its activity within 45 days from the date of its establishment.

At the end of the session relating to the interview, the Commission draws up the list of candidates examined with an indication of the score each reported in the interview itself and which, signed by the President and the Secretary, is published on the website www.ingv.it

Art. 10

Ranking of candidates and awarding of the researcher contract

The Commission forms the merit ranking in descending order of score, obtained, for each candidate, by adding the score of the qualifications and the interview.

At the end of the works, the Ranking, approved with a specific provision by the Director of the Bologna Section, is published on the INGV website.

Within 15 days from the publication of the ranking list, the INGV, through a special provision, grants the winner the research grant, notifying the person concerned by e-mail.

The winner within the peremptory term of fifteen days from the receipt of the communication of the conferment, must send a declaration of acceptance, simultaneously certifying that he is not in any of the impedimental conditions provided for by the previous art. 4.

Those who, within the deadline set by the announcement, do not declare to accept it or do not present themselves within the established terms, forfeit their right to the research grant.

Only deferments from the date of commencement of the allowance due to duly certified health reasons and mandatory abstention for maternity can be justified.

The grant is awarded through a private law contract. This contract does not in any way constitute an employment relationship and does not give rise to rights regarding access to the roles of INGV staff.

Art. 11 Rights and responsibilities

The winner must comply with the requirements of the INGV Regulations for the awarding of research grants available on the page:

<https://istituto.ingv.it/It/2-non-categorizzato/90-altri-regolamenti.html>

Research activities will be developed in the frame of the European Project NEWTON, approved by the European Research Council Agency.

To the aims and objectives of the foreseen activities, the appointed researcher has full access to the infrastructures, instruments and services at their appointment structure, according to the applicable rules and regulation approved by INGV.

In case of work trips in the frame of the planned research activities, and subject to written authorization by scientific responsible and of the Section Director, the related cost will be reimbursed according to the criteria and model established by the current regulations.

Art. 12 Forfeiture and termination

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

Art. 13 Advertisement of the selection process and Final Rules

The present call is advertised on the INGV official board and by publication on the website of INGV and MIUR.

For what is not provided for in this announcement, reference is made to the current laws and regulations in force.

The personal data provided by the candidates will be processed, in accordance with law n. 196/2003 and subsequent amendments exclusively for the purposes of managing the selective procedure.

Director of Sezione INGV Bologna
Dott. Antonio Costa



APPLICATION FORM

K.A. Director Sezione of Bologna
Istituto Nazionale di Geofisica e Vulcanologia
Via Donato Creti, 12
40128 Bologna, Italy

- 1) Subject: Application to participate to a public selection for a research contract. Reference
“**Selection for Research Grant n . 05/2020/BO Sezione di Bologna**”

The undersigned (name, surname) _____

Born in (country/state) _____ nation _____

date (dd/mm/yy) _____ Italian tax payer’s code (codice fiscale) _____

and resident in (*street/square, postal code*) _____

Country _____ Nation _____

E-mail address entitled for the purpose of this call: _____

ASK

To be admitted to participate to a selection for the assignation of a collaborative contract regarding **Forward and inverse modelling of the full seismic wave field, coupling seismological and geodynamical modelling, near convergent margins** under the ERC project called “NEWTON” at the INGV Sezione of Bologna.

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

- possess the following citizenship: _____
- (only for European citizens) to be in possession of political rights;
- possess the following degree: _____

obtained at _____

on (dd/mm/yy) _____ evaluation: _____

- possess the requirements stated at art 3 from letters a) to d) of this call.
 - Have no prior criminal conviction and no current criminal proceedings (otherwise, please state pending proceedings and/or sentences passed, their dates and Judicial authority who passed them)
-

- not to be permanently or temporarily employed at INGV;
- no to be permanently employed by other institutions referred to in art. 22, par. 1, law n. 240/2010;
- not to be enrolled in graduate courses (either at Bachelor or Master level)
- not to be enrolled in a PhD;
- or**
- to be enrolled in the following PhD course _____
and to produce documentation attesting the suspension of the grant before the date of start of the research contract
- have a good understanding of English
- and commit to timely communication of any change in the above contact details

I request to undergo a remote interview through videoconference system based on protocol "SKYPE with WEBCAM": **YES / NO**

To this aim, the following Skype address is elected:

to which I commit myself to be contacted in the day and time established and communicated by the Evaluation Committee.

I attach the following separate documents:

- 1) CV duly signed;
- 2) Other titles (other titles attached to the application that the candidate deems may be subject to evaluation)

- 3) Readable copy of passport or of a Europe recognized IT with photo;
- 4) List all attached documents according to art. 6 of this call

I hereby agree to allow processing of my personal data according to the Legislative Decree 30/06/2003 n. 196 for the scope of the present selection.

Date _____ Signature (readable) _____

Note: the mail must report the following subject: "Selection for Research Grant n. 05/2020 Sezione di Bologna"

**STATEMENT MADE UNDER
ARTICLES 46 AND 47 OF THE D.P.R 28/12/2000 N. 445**

I the undersigned _____
(surname) (name)

Born at _____
(place) (country) (nation)

on ____/____/_____
(date: dd/mm/yyyy)

resident at _____
(place) (country) (nation)

in _____
(address)

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 are true and accurate;
- b) *(only if copies of documents are provided, and for cases indicated at 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 document for which copies are provided)

(example)

Description of the title date
Protocol number..... issued by
Period of activity from (date)..... To
carried out at (institution)
with functions of.....

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

(place and date)

Signature