

ENGLISH TRANSLATION – ORIGINAL DOCUMENT IN ITALIAN LANGUAGE

Art. 1) Subject of the research grant

A public selection, based on qualifications and interview, is announced for the award of 1 Post-Doctoral Research Grant for a duration of 12 months to carry out activities within the framework of the Multiparametric Network Project; These activities will be carried out at the INGV Section of Pisa.

The title of the research subject of the research grant is: “Quantitative estimation of volcanic hazard”

The research will be developed by carrying out the following activities:

1. Estimation of the probability of occurrence of volcanic phenomena;
2. Numerical models of explosive volcanic phenomena;
3. Mapping of volcanic hazard with quantification of uncertainty

The research activities will be carried out within the framework of the Multiparametric Network Project. Objective function 9999.720.010 Central Administration, on which the related expenses will be incurred.

The scientific supervisor of the contract activities will be Dr. Andrea Bevilacqua.

Art. 2) Economic treatment, duration, and renewal

The all-inclusive gross compensation is set at Euro 27,474.00, inclusive of employer charges, unless adjustments are required in case of increases over the minimum amount set at the ministerial level, and it will be disbursed to the beneficiary in monthly arrears.

The grant will have a duration of 12 months and can be renewed, as provided for in Article 22, paragraph 3 of Law 240/2010. The total duration of the established relationships, in accordance with Article 22, paragraph 3 of Law 240/2010, including any renewals, cannot exceed six years, excluding the period in which the grant was enjoyed in coincidence with the doctoral program, within the maximum limit of the legal duration of the respective course.

The grants are subject, in tax matters, to the provisions of Article 4 of Law August 13, 1984, no. 476 and subsequent amendments and integrations, as well as, in social security matters, to those of Article 2, paragraphs 26 and following, of Law August 8, 1995, no. 335 and subsequent amendments; regarding mandatory maternity leave, the provisions of the Decree of the Minister of Labor and Social Security of July 12, 2007; for sick leave, Article 1, paragraph 788, of Law December 27, 2006, no. 296 and subsequent amendments apply.

Art. 3) Requirements

For admission to the selection, the candidate is required to possess, in addition to what is provided by law for access to public employment, the following requirements:

- Possession of a Bachelor's Degree (DL) in Physics, Mathematics, Computer Science, Geological Sciences and Technologies, Geophysical Sciences, Statistical Sciences, Mechanical Engineering, Aerospace Engineering, Chemical Engineering, or Computer Engineering, obtained according to the regulations in force before the reform referred to in Legislative Decree no. 509/1999 (DL), or obtained in the classes of specialized degrees (LS) or master's degrees (LM) to which the aforementioned bachelor's degree is equated by law, by ministerial decree of July 9, 2009, or by subsequent ministerial decrees for the purpose of participating in public competitions. For degrees obtained abroad, a declaration of equivalence or equivalence is required according to the procedure provided for in Article 38 of Legislative Decree no. 165/2001.
- Possession of a Ph.D. diploma.
- Proficiency in the English language.

Additionally, the following preference requirements will be considered:

- Experience in the use of computer systems.
- Basic knowledge of one of the following programming languages: R, Python, Matlab, Linux commands, Fortran.
- Previous experiences or basic knowledge in one or more of the following topics: (i) methods for quantitative estimation of the probability of occurrence of volcanic phenomena; (ii) numerical modeling techniques of explosive volcanic phenomena; (iii) strategies for mapping volcanic hazard with quantification of uncertainty.

In case the bachelor's degree was obtained abroad, and the candidate has obtained the equivalence of the title in Italy according to current regulations, the candidate is required to submit the administrative act of an Italian university with which the equivalence of the title has been obtained, or the administrative act of the Ministry of Education, University and Research (MUR) by which the foreign title is recognized for the purpose of participating in public competitions.

In case the bachelor's degree was obtained abroad, and the candidate has not yet obtained equivalence in Italy, the equivalence of the title will be evaluated, solely for the purpose of admitting the candidate to the selection notice, by the judging committee. The candidate who emerges as the winner of this selection must produce the certificate of equivalence of the title before the start of the contract, under penalty of exclusion from the selection ranking.

The requirements must be possessed as of the deadline for the submission of applications for admission to this selection. INGV ensures gender equality and equal opportunities for the allocation of the grants in question and the protection of the confidentiality of personal data processing, in accordance with current regulations.

Art. 4) Incompatibility

Research grant holders cannot be employees in permanent positions at universities, institutions, and public research and experimentation entities, ENEA, and the Italian Space Agency, as well as at institutions where the diploma of scientific specialization is recognized as equivalent to the Ph.D. degree under Article 74, paragraph 4, of Presidential Decree no. 382 of July 11, 1980.

Research grant holders in service at public administrations other than those mentioned in the previous paragraph or employees of private employers will be disqualified if not placed on leave without pay for the duration of the research grant, even if they are part-time employees.

In accordance with Article 22, paragraph 3, of Law 204/2010, holding a research grant is not compatible with participation in undergraduate, graduate, or postgraduate courses, Ph.D. programs with a scholarship, university master's programs, both in Italy and abroad, and requires the employee in service at public administrations to be placed on leave without pay.

The grants cannot be combined with any scholarships awarded by INGV or other research entities or institutions. Research grant holders can attend Ph.D. programs that do not involve the payment of scholarships.

Employees of INGV with permanent or fixed-term contracts and staff in permanent positions at other entities mentioned in Article 22, paragraph 1, of Law no. 240/2010 cannot be research grant holders.

Research grant holders are not allowed to undertake other internal assignments within INGV.

Art. 5) Application for Admission

The application for admission, drafted on plain paper according to the attached template (Attachment 1) and signed by the candidate, under penalty of exclusion, must be addressed to: INGV, Pisa Section, Via Cesare Battisti, 53 56125 Pisa.

The application must be submitted no later than 30 days from the publication date of this notice on the INGV institutional website (i.e. December 16th, 2023), using the following method:

- Electronic submission in PDF format via the candidate's Certified Email (PEC) to the address: aoo.pisa@pec.ingv.it, specifying in the subject of the submission: "Selection for Post-Doctoral Research Grant. Notice no. 5/2023 - INGV Pisa Section."

It is clarified that the transmission must occur exclusively from the candidate's Certified Email box. The validity of the transmission of the participation application is confirmed by the "Receipt of Successful Delivery," which, under penalty of exclusion, must reach the candidate's PEC box by 23:59:59 on the aforementioned deadline. It is the candidate's responsibility to verify receipt of this confirmation on their PEC, issued by the telematic system, as proof that the message was correctly delivered to the recipient in a timely manner.

For foreign citizens residing abroad or residing in Italy but not authorized to use PEC, the signed application must be sent from a non-certified email address to the protocol aoo.pisa@pec.ingv.it.

In the application for participation, the candidate must declare:

- Last name and first name
- Date and place of birth
- Tax code
- Residence
- Possession of the requirements specified in Article 3 of the notice
- Identification details of the valid identification document attached to the participation application
- Certified email address where the candidate wishes to receive all communications and/or measures of the selection procedure. In case of non-indication, notifications will be sent to the certified email address used for the transmission of the participation application.

The candidate must attach the following documentation to the participation application:

a) A curriculum vitae with the indication of only the name and surname, without additional personal data. In the CV, the candidate must explicitly state:

- i) Academic and specialized qualifications (Bachelor's degree, Ph.D., specialized diploma, university master's programs, first and/or second level). In particular, it is necessary to indicate the institution that issued them and the grade obtained;
- ii) Professional experiences and positions held. In particular, it is necessary to indicate the organization where these activities were carried out and their duration with the indication of the start and end dates;
- iii) List of professional certificates and training internships;
- iv) List of products from scientific, technical, or professional activities, including publications, patents, conference papers. In particular, it is necessary to indicate the editorial placement of the contribution, even in the case of a web platform. If these products are available on the web, the exact and complete address of the respective sites must be indicated, or the DOI (Digital Object Identifier) if available, and it is not necessary to attach a copy; if they are not available on the web, they must be appropriately described in the CV and will be evaluated based on these descriptions even if not attached, or written in a language other than Italian or English;
- v) List of professional qualifications and registrations with professional associations;
- vi) Any other title considered useful.

b) Photocopy of a valid identification document.

In accordance with Article 76 of Legislative Decree December 28, 2000, no. 445, all statements made in the participation application and in the curriculum vitae et studiorum are considered as made to a public official, and false statements, falsehoods in documents, and the use of false documents are punishable under the criminal code and special laws. Citizens of non-Union States regularly residing in Italy can use the substitute declarations referred to in Articles 46 and 47 of Legislative Decree December 28, 2000, no. 445, limited to states, personal qualities, and facts certifiable or attestable by Italian public authorities. Citizens of non-Union States authorized to stay in the territory of the State can use the substitute declarations referred to in Articles 46 and 47 of Legislative Decree December 28, 2000, no. 445 in cases where their production occurs in application of international conventions between Italy and the

country of origin of the declarant. Outside of the aforementioned cases, states, personal qualities, and facts are documented by certificates or attestations issued by the competent authority of the foreign state, accompanied by a translation into Italian authenticated by the Italian consular authority certifying its conformity to the original, after warning the interested party about the criminal consequences of producing untrue acts or documents.

The Administration is not responsible in any case for communication discrepancies caused by unforeseen events, force majeure, or inaccurate or unclear transcription of personal data, residence address, or certified email address (PEC), even if the candidate's email box is no longer active or unable to receive messages (for example, a certified email box with exhausted reception capacity). Therefore, it is the candidate's responsibility to notify the Administration of any changes to the aforementioned contact information and to keep the certified email box active and capable of receiving messages."

Art. 6) Exclusion from the Selection

Candidates are admitted provisionally to the selection.

Exclusion from the competition is expressly provided for in the following cases:

- a) Failure to sign the participation application in handwritten form, or in digital form, or with other signature methods indicated by Article 65 of Legislative Decree March 7, 2005, no. 82, if the candidate has submitted the participation application via certified email not registered to themselves;
- b) Failure to transmit a valid identification document, except in the case of signing the participation application using one of the forms provided for in Article 20, Legislative Decree March 7, 2005, no. 82;
- c) Submission of the participation application after the deadline indicated in the notice;
- d) Failure to submit the participation application in the form of a substitute declaration of certification and affidavit as per Articles 46 and 47 of Presidential Decree 445/2000.

Regarding cases a), b), and d), the Administration exercises instructional support. Candidates are admitted provisionally to the selection. Exclusion from the selection due to a lack of requirements can be ordered at any time by a reasoned decision of the Section Director. The exclusion will be communicated to the candidate.

Art. 7) Examination Committee

The examination committee is appointed by the Section Director after the deadline for submitting applications and consists of three members with a level not lower than III, chosen from internal or external researchers and technologists of the entity, or experienced university professors in the subject, one of whom serves as President and one as a recording Secretary. The Secretary's functions can also be performed by a member of the Committee. The appointment decree of the Committee is published on the institutional website. The Examination Committee will carry out its work also in a telematic mode, ensuring the security and traceability of communications, according to current regulations.

Art. 8) Selection Method and Exam Schedule

The Committee has a total of 100 points available for the selection. For the evaluation of qualifications, the Committee has 50 out of 100 points. For the interview evaluation, the Committee has 50 out of 100 points. Only candidates who have obtained a score of at least 30 out of 50 available points in the qualification evaluation can be admitted to the interview. The interview is considered passed if the candidate scores at least 30 out of 50 available points.

The overall evaluation of the candidates will be issued by the Committee after the evaluation of qualifications and the interview assessment.

The Committee preliminarily adopts the criteria and parameters to which it intends to adhere, with specific reference to the activities subject to the research grant and the requirements specified in Article 3 of this notice, formalizing them in the relevant minutes to assign the respective scores.

The Committee then conducts a comparative evaluation of the candidates through the examination of qualifications according to the criteria and parameters adopted at the first meeting.

Subsequently, the Committee conducts a comparative evaluation of the candidates through an interview, which will

focus on the experience declared by the candidate under Article 3 of this notice, on the activities subject to the research grant, on the products of scientific, technical, or professional research activities, and on the level of knowledge of the English language.

The interview will take place in a telematic mode via the Google MEET digital platform on January 10, 2023, at 10:00 AM.

For this purpose, the candidate must provide a personal gmail account in the application where they can be contacted for the interview and must have suitable audio and video equipment, as well as an adequate Internet connection; at the time of the interview, they must present an identification document.

Candidates who do not connect to the link to take the interview on the scheduled day and time will be declared disqualified from the selection.

The link for the live streaming to be connected to will be communicated via PEC to the address indicated in the application, to the candidates admitted to the interview, and will be published on the institutional website of the entity, in the section of competition notices. At the end of the session related to the interview, the Committee compiles the list of examined candidates with an indication of the score obtained in the interview by each of them.

Art. 9) Formation of the Merit Ranking and Granting of the Research Grant

The Committee forms the merit ranking in descending order of score by summing, for each candidate, the score obtained in the evaluation of qualifications and the interview. At the end of the Committee's work, the ranking, approved by a specific measure from the Director of the Pisa Section, is published on the INGV website.

Within 15 days from the publication of the ranking, INGV, through a specific measure, grants the research grant to the winner, notifying the interested party.

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 personnel.

The winner must, within the deadline of fifteen days from the receipt of the communication of the grant, submit a declaration of acceptance, simultaneously certifying that they are not in any of the conditions set forth in the previous Article 4. Those who do not declare acceptance within the specified deadline or do not appear within the established deadlines forfeit the right to the research grant. Only deferments from the start date of the grant due to duly certified health reasons and mandatory maternity leave can be justified.

Art. 10) Rights and Duties

The winner must comply with the obligations set out in the INGV Regulations for the granting of research grants available at the following page:

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

The winner must carry out research activities within the scope of the activities mentioned in Article 1 and commit to respecting every norm and rule established by INGV. The tasks assigned to the grantees must relate to research activities and not be merely technical support. Grantees have the right to use, for the purpose of carrying out their research activities, the equipment of the structure where they perform their service and to avail themselves of the services available to researchers according to the current rules and provisions approved by INGV.

If expressly authorized by the Scientific Supervisor and the Section Director, the grantee must travel on a mission within the research to which they are assigned; they will be reimbursed for expenses according to the criteria and methods specified by current regulations.

Art. 11) Forfeiture and Termination of the Relationship

For the holder of the grant who, after starting the scheduled research activity, does not regularly and continuously pursue it for the entire period, the procedure for declaring the termination of the contract is initiated, upon a motivated proposal from the Scientific Supervisor, approved by a reasoned measure from the Director-General.

Art. 12) Treatment of Personal Data

The data controller is INGV. Those responsible for processing are the individuals in charge of the selection procedure and authorized to process personal data pursuant to Article 29 of the GDPR, identified by the Data Controller within the same procedure. The Data Controller has appointed a Data Protection Officer for the purposes of Article 2-quaterdecies of the Privacy Code, as amended by Legislative Decree 101/2018.

The data collected with the application for participation in the selection procedure are processed exclusively for the purposes related to the completion of the procedure and for subsequent activities related to the possible hiring process in compliance with specific regulations.

The data provided by candidates for participation in the public selection may be entered into specific databases and may be processed and stored, in compliance with the obligations provided by current legislation and for the necessary time connected to the management of the selection procedure and rankings, in electronic/paper archives for the necessary requirements of the General Directorate, Central Directorates, the Procedure Manager, and the examination committee in relation to this procedure. This is also to comply with specific obligations imposed by laws, regulations, and community legislation.

The processing of the candidate's data is necessary to fulfill a legal obligation to which the data controller is subject and also for the performance of a contract of which the data subject may be a part or for the performance of pre-contractual measures (legal basis: Article 6(1)(c), (b) of the GDPR). Therefore, providing the data is mandatory, and refusal to provide it makes it impossible to proceed with the evaluation of the application for participation in the selection, as well as the subsequent requirements related to the competition procedure.

The personal data in question are processed, in compliance with legal provisions, using security measures suitable to ensure the confidentiality of the data subject to whom the data refer.

Personal data may be communicated to other public and private entities when required by legal or regulatory provisions.

Personal data may be subject to disclosure in compliance with the resolutions of the Authority for the Protection of Personal Data. The final merit ranking is disclosed by publication in the forms provided by the relevant regulations and, in compliance with the principles of relevance and non-excess, through the institutional website of the Administration.

The data subject may exercise, under the conditions and within the limits of EU Regulation 2016/679, the rights provided for in Articles 15 and following of the same regulation, namely access to their personal data, correction or deletion of data, restriction of processing, data portability, and opposition to processing. The data subject may also exercise the right to lodge a complaint with the supervisory authority for the protection of personal data.

Art. 13) Access to Documents and Procedure Manager

Candidates may exercise the right to access the documents of the competition procedure, in accordance with current legal provisions and administrative regulations.

By submitting the application for registration, the candidate declares to be aware that any requests for access to documents by participants will be processed by the Administration after informing the holders of all the documents subject to the requests and forming part of the candidate's competition file.

In order to facilitate the redaction of any personal data in the event of access to documents, candidates must submit the documentation in a digital format without data protection. The Procedure Manager is the Director of the Pisa Section, Dr. Tomaso Esposti Ongaro, PEC: aoo.pisa@pec.ingv.it.

Art. 14) Publicity and Final Provisions

The announcement related to this selection procedure will be published on the INGV, MUR, and European Union websites. For matters not covered in this announcement, reference is made to current legislative and regulatory provisions regarding the regulatory framework for public competitions and selections, where applicable.