



OGS

Istituto Nazionale
di Oceanografia
e di Geofisica
Sperimentale

Call 36/2023

Announcement of public selection based on qualifications and interview for no. 1 research grant entitled "Numerical modeling of the stability field of methane hydrates in the oceans at global scale and implications for climate change" for the Geophysics Section of Oceanography of the National Institute of Oceanography and Applied Geophysics – OGS.

Description of the activities

The study covered by this grant concerns methane hydrates in the oceans and the implications due to climate change. Natural methane hydrates are stable in the deep marine environment and owe their presence to the in-situ pressure and temperature range. With the boundary conditions, the hydrostatic pressure field and the temperature according to the geothermal gradient and the temperature and salinity field in the oceans, it is possible to simulate the theoretical distribution of methane hydrates. Assuming global trends in ocean temperature changes, it is possible to evaluate the impact of climate change on the release of methane from the ocean floor and the possible contribution to the atmospheric methane budget. The grant aims to run the numerical simulations and evaluate the impact.

Art. 1 – Vacancies and general part

A public selection based on qualifications and interview is open to award no. 1 research grant entitled "Numerical modeling of the stability field of methane hydrates in the oceans at global scale and implications for climate change" for the Geophysics Section of the National Institute of Oceanography and Applied Geophysics – OGS.

SCIENTIFIC DISCIPLINARY SECTOR: GEO/10 Solid Earth Geophysics
FIS/02 Theoretical physics, mathematical models and methods

The grant is neither compatible with any other type of grants, nor with fellowships or allowances of similar nature. Furthermore, the grant is not compatible with permanent private or public employment, with the exception of unpaid leave from work.

OGS may not pay any additional payments to grantees.

This selection notice is available on the OGS institutional web page <https://www.ogs.it/it/concorsi> together with all the information, news and notices referred to this Call.

Art. 2 – Duration and amount of the Research Grant

The grant will have a duration of 12 months and may be renewed. On request by the scientific Tutor, the grant renewal may be proposed by the Director of the Research Section of Geophysics to the General Director of OGS. Even in case of possible renewals, the duration of the grant cannot exceed three years.

The annual grant salary (12 months), net of charges borne by OGS, amounts to € € 14.400,00 and shall be paid in monthly instalments. All expenses connected to travel, board and lodging, will be reimbursed to the grantee when carrying out the activities out of the OGS headquarters in proportion to the allowance paid to the OGS staff belonging to the 3rd professional level.



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The grant is subject to the applicable tax regulations, and it is exempt from social security deductions.

Art. 3 – Requirements

The requirements for the admission to the public selection are:

- To be under the age of 30;
- To hold a Master's degree in scientific disciplines degrees by Italian Universities or degrees issued by Universities abroad;
- Good knowledge of the English language.

Candidates who obtained a qualification abroad that has been declared equivalent by the Italian competent educational authorities or validated according to the rules in force (Art. 38 Legislative Decree 165/2001), are admitted to participate in the Call.

The candidate without such requisite at the date of the application shall present a detailed documentation concerning his/her education in order to allow the selection board to evaluate the application limited to the present Call.

The admission requirements must be fulfilled at the date of publication of this notice of recruitment.

Art. 4 – Application form: terms and conditions

The application forms for the participation in the Call shall be sent according to the form herewith attached (Annex 1), signed with handwritten or digital signature and sent by one of the following options:

- By personal PEC (Electronic Certified Email), in conformity with the current legislation on the matter, to the following PEC address: ogs@pec.it, indicating in the subject line of the email name, surname – number of the Call – title of the Call.

Only and exclusively for non-national candidates, or Italian citizens residing abroad unable to have personal PEC: application forms for the participation in this Selection shall be filled out according to the form herewith attached (Annex 1), signed with handwritten or digital signature, and sent:

- By e-mail, to the following e-mail address: protocollo@ogs.it, indicating in the subject line of the email name, surname – number of the Call – title of the Call.

Please note: the maximum e-mail size limit is **30 MB**. Should the attachments exceed this limit the candidate has to send more than one e-mail (indicating in the subject the e-mail number, for example: "Name, surname, number of the Call, title of the Call, e-mail no. X out of Y"). Files with ".zip" extension are **not** accepted.

The application form must be sent at the latest **by 11.59 pm** on the closing date.

If the last day for the submission of applications is a Sunday or a public holiday, the deadline shall expire at 11.59 pm on the first following working day.



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All the communications related to the procedure shall be sent to the personal PEC / e-mail of the applicant. The applicant is directly responsible in case of failed delivery of the notifications. OGS assumes no responsibility for the incorrect indications of PEC / e-mail address or for missed or late notification of change in the PEC / e-mail address.

Different methods of delivery will not be accepted.

Under his/her own responsibility, the candidate must declare the following information:

- Surname and name;
- Place and date of birth;
- Residence (address, city, province/state, zip code, country);
- Citizenship;
- Not have been convicted or found guilty of any criminal offence, or, if any, what kind of criminal offence the candidate has been found guilty;
- To be in possession of the required qualifications, with all the details concerning date, place of issue, final mark;
- To be in possession of the further requirements as per art. 3 of this Call;
- The chosen address for the Call.

The candidate shall attach to the application form the **Curriculum Vitae et Studiorum** (possibly in European format) written either in Italian or English, dated and signed with handwritten or digital signature; in the CV the applicant shall include all the useful information for the evaluation. **At the end of the CV the candidate shall insert the following declarations:**

- o *"All the information contained in this Curriculum Vitae et Studiorum is accurate and truthful and is given under my responsibility according to articles 46 and 47 of the Presidential Decree dated 28.12.2000, n. 445. I am aware that false declarations are punishable by law in accordance with art. 76 of the same Presidential Decree dated 28.12.2000, n. 445"*.
- o *"I authorize the processing of my personal data in the curriculum vitae in accordance with Legislative Decree no. 196 of June 30, 2003 "Code on the protection of personal data" and Article 13 of the GDPR (EU Regulation 2016/679)"*.

The candidate may also attach all documents and qualifications that he/she deems appropriate to present in his/her own interest.

The candidate shall also attach to the application:

1. Self-declaration affidavit in accordance with art. 46 Presidential Decree dated. 28.12.2000, no. 445 ([Annex 2](#)), concerning the degree or the PhD obtained;
2. Self-declaration affidavit, in accordance with art. 47 Presidential Decree dated 28.12.2000, no. 445 ([Annex 3](#)), concerning the curriculum vitae and other possible documents, certificates, qualifications.

The self-declaration affidavit shall be accompanied by a **copy of a valid identity document**.

Application forms not accompanied by the self-declaration affidavit as per point 1) and point 2), filled in accordingly, will not be considered.



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Candidates with disabilities, with reference to their own disability, shall mention their specific request for assistance in the application form.

Art. 5 – Exclusions

Candidates are admitted to the selection provisionally. The General Director has the faculty to exclude a candidate at any time in case of lack of the above-mentioned requirements by providing a valid justification.

Applicants will be notified of their exclusion from the selection procedure within 5 days from the exclusion provision.

Art. 6 – Selection Board: evaluation of qualifications, interview, and ranking list

The Selection Board shall be appointed by the OGS General Director and shall be composed of three members, including the scientific Tutor.

The Selection Board may carry out the evaluation procedure with the aid of videoconference tools, ensuring in any case the complete communication security and traceability.

The session is open and closed by the President, who governs its execution and could suspend it in every moment, where necessary. The President has the duty of checking, before the start of the meeting, the participants' identity and assessing the presence of the required conditions of participation. These elements will be specified in the minutes, together with the indication of the technologies used by each member.

The Selection Board shall close the selection procedure within six months from the date of its first meeting. Should the Selection Board fail to respect this term, it shall collectively write a valid justification to the OGS General Director (see art. 11 – D.P.R. 487/1994).

The selection is based on qualifications and interview.

The Selection Board can assign up to 100 points, divided as follows:

- 30 points for the evaluation of the qualifications
- 70 points for the interview.

In order to pass the interview, the candidate should obtain a minimum score of 49/70.

QUALIFICATIONS (max 30 points out of 100)

The Selection Board preliminary adopts the criteria and the parameters to which it intends to apply, with specific reference to the characteristics of the research project.

The evaluating titles are:

- master's Degree final mark and accordance to the subject of the Call;
- specialization diplomas and certificates of attendance to post lauream training courses, both in Italy and abroad;
- previous collaborations with public or private organisations, based on contracts, fellowships or assignments, both in Italy and abroad;
- knowledge of terrestrial physics and the natural gas hydrate system;



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- knowledge and experience in the use of programming languages..

INTERVIEW (max 70 points out of 100)

The interview may take place by means of videoconference call, ensuring anyway the adoption of technical solutions that guarantee the disclosure and transparency, the participant's identification, and the communication security.

The interview will focus on general themes related to the profile of the present Call, on the past experiences and the possible publications submitted. The interview could be held in English.

For the interview the candidates shall provide a valid identification document.

The candidates who will not be present at the interview, or those who will not be connected in videoconference Call according to the indications given by OGS, should the interview take place this way, will be excluded from the competition.

In order to pass the interview, the candidate should obtain a minimum score of 49/70.

RANKING LIST

After completion of the interviews, the Selection Board prepares a ranking list, with all the final scores obtained by each candidate, in descending order.

Candidates ranking list is drawn up according to the overall votes each candidate received. In the case of candidates with the same score, the preference will be attributed to the younger candidate.

The ranking lists with the indication of the grant winner will be published by the President of the Selection Board on the OGS website <https://www.ogs.it/it/concorsi>.

Such publication effectively constitutes an official notification.

Art. 7 – Ranking list approval approval and appointment of the grant winner

The General Director, once verified the formal validity of the documents transmitted to the Selection Board, approves the ranking list and appoints the grant winner.

The ranking lists shall remain valid for 18 months after the date of approval.

In case of formal renunciation of the grant winner, or if the grant winner does not accept the grant within the prescribed period according to Art. 8 of the present Call, the grant shall be awarded to the next eligible candidate in the ranking list, following the score order, within the limits of the above-mentioned list duration.

Art. 8 – Awarding of the grant

The OGS General Director, in compliance with the current legislation on the matter, awards the research grant to the grant winner.

The grant winner will be duly notified of the result and shall send an official declaration of acceptance of the grant within 15 days after acknowledgement of receipt of the notice. Once obtained the declaration of acceptance from the winner candidate, a contract between the OGS General Director and the grant winner is prepared and signed. This contract states the terms and conditions of the cooperation, together with the research activities to be carried out.



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Art. 9 – Implementation of the research activities

The activities of the grant holder are carried out in complete autonomy and with no scheduled working time, within the specific research programme and according to the guidance provided by the scientific Tutor.

The grant holder activities are never considered as dependent employment.

The grant does not entail any social security treatment or can be used for the evaluation of legal and economic careers.

Art. 10 – Obligations of the grantee and evaluation of the research activity

The grant holder must carry out the commitments foreseen by the research programme prepared by the scientific Tutor and under his/her supervision. At the end of the grant, the grant holder shall submit to OGS a final research report that includes the obtained results, accompanied by the evaluation of the scientific Tutor that shall be countersigned by the Director of the Section. Upon formal request of the grant holder, the implemented activities may be submitted to a duly designated Selection Board for evaluation.

All technical, scientific, and administrative data and information gathered by the grant holder during the implementation of the activity shall be considered confidential and therefore the use of such information is not permitted for purposes different than those for which the grant has been awarded.

With regard to the protection of the intellectual property of the results or products obtained on the performance of the activity of the grant, please refer to OGS Rules and Regulations on patents and protection of intellectual property.

Art. 11 – Personal data management

In accordance with Article 13 of the EU General Data Protection Regulation 2016/679 (GDPR), candidates are informed that their personal data, provided by applying to this selection or to this end collected by the National Institute of Oceanography and Applied Geophysics – OGS (from now on, “OGS” or “the Controller”) will be exclusively collected and treated by authorised individuals, Selection Board included, for purposes strictly connected to the selection procedure, with or without the aid of electronic tools, even in case of possible communication to third parties or diffusion (e.g. ranking list publication for transparency purposes).

These treatments by OGS are legitimate as are necessary for the performance of contracts or of pre- contractual measures adopted upon request of the candidate, in compliance with a legal obligation to which OGS is subject, or for its own interest.

According to art. 15 et seq. of the above-mentioned Regulation 2016/679, the candidates have the right of access their personal data, the right of limitation and rectification, as well as the right of opposition and the right to delete their data, for legitimate reasons.

These rights may be exercised against the National Institute of Oceanography and Applied Geophysics – OGS (Data Controller) with head office in Borgo Grotta Gigante 42/c 34010 Sgonico (TS).



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In order to exercise the rights recognized by the Regulation 2016/679, or for any information related to the personal data treatment, it is possible to contact the Data Controller at the following e-mail address: privacy@ogs.it. The Data Protection Officer appointed by OGS can be contacted at the following e-mail address: dpo@ogs.it

Art. 12 – Responsible of the Proceedings

In accordance with art. 5 of the Law dated 7/08/1990 no. 241, the Responsible of the Proceedings is dr. Paola Del Negro, General Director of OGS, direzione@ogs.it

Art. 13 – Accessibility

This Call will be posted on the OGS website, and on the European Commission Internet portal *Euraxess*.

Art. 14 – Right of access

The right of access to the documents regarding this procedure may be exercised according to the indications of the Law dated 7/08/1990 no. 241 and subsequent amendments. For information on this matter, refer to the OGS Recruitment Office: concorsi@ogs.it

The requests of access will be published on the OGS website www.ogs.it, in the Job's Opportunities section dedicated to this selection. This publication fulfils the obligation of informing the persons concerned.

Art. 15 – Final Proceedings

Anything not envisaged by the articles of this Call shall be regulated by the OGS "*Research Grants Rules and Regulations*" approved by the Board of Directors with Resolution n. 8.6.2015 dated 26.06.2015.



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Annex 1

Application form

To: Istituto Nazionale di Oceanografia
e di Geofisica Sperimentale – OGS
Località Borgo Grotta Gigante, 42/c
34010 Sgonico – TS
ogs@pec.it

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The undersigned (name) _____ (surname)

Born in (City/State/Country) _____ on

and resident in _____ address

n. _____, Prov./State _____ zip Code _____
country _____

requests to participate in the present selection.

For this purpose, the applicant declares under his/her own responsibility:

- citizenship

- not have been convicted or found guilty of any criminal offence (if any, please specify):

- to hold a Master's Degree (please cross the type of degree you hold)

master's degree pursuant Ministerial Decree no. 509/99

master's degree pursuant Ministerial Decree no. D.M. 270/04

in _____
obtained on date _____ from the University of

with the score of _____ / _____



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if the qualification is obtained abroad

- to have already obtained the recognition of the equivalence as per Art. 38 of the Legislative Decree dated March 30 2001, n. 165, in view of the documents annexed to the application

or

- to have already applied for the recognition of the equivalence as per Art. 38 of the Legislative Decree dated March 30 2001, n. 165, in view of the documents annexed to the application

or

- to present the following detailed documentation of the attended training in order to allow the selection board to assess the recognition of equivalence only for the purposes of the applicant's participation in the mentioned Call

_____;

- to possess the further requirements included in the art. 3 of the present Call;
- to hold the following titles that may be evaluated:

the following documents are sent in attachment to the application form:

For the purpose of this procedure I, the undersigned authorize, in accordance with Legislative Decree No. 196 of June 30, 2003 "Code for the Protection of Personal Data" and the GDPR (EU Regulation 2016/679), the processing of personal data concerning the application for participation in this competition and its annexes.

Date _____

Signature _____



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The

undersigned

For participating in this Call no. _____ requests to take the exam in one of the following languages:

- Italian
- English

Signature



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Annex 2

SELF DECLARATION AFFIDAVIT
(art. 46 Presidential Decree 28.12.2000 no. 445)

The undersigned (name) _____ (surname)

Born in (City/State/Country) _____ on

and resident in _____ address

n. _____, Prov./State _____ zip Code _____
country _____

aware that false declarations are punishable by law (art. 76 Presidential Decree 28.12.2000 no. 445)

DECLARES

- to hold a degree (please cross the type of degree you hold)
 - master's degree pursuant Ministerial Decree no. 509/99
 - master's degree pursuant Ministerial Decree no. D.M. 270/04

in _____
obtained on date _____ from the University of _____
with the score of _____ / _____

- to be in possession of the following title of specialisation or certificate of attendance to a _____ post _____ lauream _____ specialisation _____ course _____
obtained on date _____ issued by _____
with the score of _____.

The undersigned also declares that he/she has been informed that, in accordance with current legislation, personal data will be treated, by computer tools also, exclusively within the object for which the declaration has been drawn up.

Date _____

Signature



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Annex 3

SELF DECLARATION AFFIDAVIT
(art. 47 Presidential Decree 28.12.2000 no. 445)

The undersigned (name) _____ (surname)

Born in (City/State/Country) _____ on _____

and resident in _____ address _____

n. _____, Prov./State _____ zip Code _____
country _____

aware that false declarations are punishable by law (art. 76 Presidential Decree 28.12.2000 no. 445)

DECLARES¹

- That what is stated in the curriculum vitae ed studiorum is true;
- That the copy of the following title or document or publication attached to the application form of no. ____ pages is a true copy of the original.
- that _____

_____ (1)

The undersigned also declares that he/she has been informed that, in accordance with current legislation, personal data will be treated, by computer tools also, exclusively within the object for which the declaration has been drawn up.

Date _____

Signature

(1) The declarant shall send attached to the declaration **a copy of a valid identification document.**

¹ Purely as an example:

the copy of the following title or document or publication attached to the application form of no. _____ pages is a true copy of the original.