



Call 16/2020

Announcement of public selection based on qualifications and interview for no. 1 Junior fellowship in the field of “Study of the evolution of chlorophyll fronts through high resolution models, HF radars and data assimilation”, by the research section “Oceanography” – OCE of the National Institute of Oceanography and Applied Geophysics – OGS.

Description of the activity

The grant is part of the Training Program HPC-TRES.

The research activity consists in the development, application and deployment of high-performance computational methodologies applied to the study of the Earth System. The activity is specifically finalized to contribute to the research line A8 “*Study of the evolution of chlorophyll fronts through high resolution models, HF radars and data assimilation*” developed in cooperation with the LAMMA Consortium (Monitoring and Environmental Modelling Laboratory for Sustainable Development) and described in detail in the scientific plan of the HPC-TRES program.

In particular, the activity will consist of:

1. Implementation, calibration and validation of a combined physical-biogeochemical model of the North-Western Mediterranean Sea (NWMED) with a focus on the Pelagos Sanctuary area;
2. Application of procedures for the reduction of uncertainty through Data Assimilation, using satellite data (e.g. SST, chlorophyll) and HF radar data available on the NWMED;
3. Study of evolution of chlorophyll fronts through the comparison between models and satellite data, and application of cetacean feeding habitat models on model data.

Art. 1 – Vacancies and general part

A public selection based on qualifications and interview is open to award no. 1 Junior fellowship in the field of “*Study of the evolution of chlorophyll fronts through high resolution models, HF radars and data assimilation*”, by the research section “*Oceanography*” – OCE of the National Institute of Oceanography and Applied Geophysics – OGS.

SCIENTIFIC DISCIPLINARY SECTORS:

- GEO/12 – Oceanography and Physics of the atmosphere;
- FIS/06 – Physics of the Earth and of the circumterrestrial medium.

According to art. 22, paragraph 1 of the Law no. 240/2010, officials or permanent members of staff working for Italian Universities and Public Research Bodies (OGS included) are not eligible to take part in the selection and are therefore automatically excluded.

The research fellowship may not be combined with any other fellowships with the exception of those awarded by national or international institutions aimed at integrating the research activity of the grantees with stays abroad.

The holder of the fellowship is compatible neither with the participation in degree courses, master’s degrees, fellowship PhD, in Italy or abroad, nor with fixed-term or permanent contracts, with the exception of unpaid leave from work.

OGS may not pay any additional payments to grantees.

A copy of this selection notice is available by the OGS Headquarters as well as on the OGS institutional web page at <https://www.inogs.it/it/job-opportunities>



All information, news and notices referred to this call may be found at <https://www.inogs.it/it/job-opportunities>

Art. 2 – Duration and salary amount

The fellowship will have a duration of 12 months and cannot be renewed automatically. Upon request by the Tutor, the fellowship renewal may be proposed by the Director of the Section where the fellowship holder is implementing the research activities to the General Director of OGS. The renewal proposal shall be accompanied by a short report written by the fellowship holder detailing the implemented activities and which should be countersigned by the Tutor.

Even in the case of any possible renewals, the duration of the fellowship cannot exceed six years. The total duration of the fellowships also includes the fellowships implemented in other organizations or universities, with the exception of the time during which the fellowship overlapped a PhD course (not paid) to a maximum duration of the course itself.

The fellowship cannot be awarded to applicants who have already benefited from a fellowship, further renewals included, for a period of time of six years, with the exclusion of the above-mentioned paragraph.

In the case that the successful applicant has already benefited from fellowships for a period of less than six years, the annual research fellowship and/or its possible renewal shall be granted within the above-mentioned termination.

The gross annual salary of the research Junior fellowship, net for charges borne by OGS and including the social security contributions concerning the part borne by the grantee, is equal to € 25,000.00 and shall be paid in monthly instalments.

From the third year, the annual amount of the fellowship, net for charges borne by OGS and including the social security contributions concerning the part borne by the grantee, will be re-modulated for the total amount of € 27,000.00, provided that there is financial provision and subject to the positive evaluation of the research activities of the fellow by a Selection Board appointed by the Director of the Section and consisting of the same Director of the Section, the person in charge of the research project and an expert in the field.

The amount of the fellowship does not include any possible allowance for missions in Italy and abroad which may be deemed necessary for the implementation of the research activities connected to the fellowship. The mission allowance is determined in proportion to the allowance paid to the OGS staff belonging to the III professional level.

Fiscal and social security regulatory provisions in force are applied to all fellowships.

Art. 3 – Requirements

The requirements for the admission to the public selection are:

- MSc Degree in: Physics, Engineering, Mathematics, Computer Science, Biology, Environmental Sciences, or related disciplines, obtained either in accordance with the Italian legislation prior to Ministerial Decree no. 509/99, or Master's Degree as per Ministerial Decree no. 270/04 in all the subject classes that have been equalized under the Italian Interministerial Decree dated July 9 2009 and according to the table annexed to the above-mentioned Decree, obtained at any Italian University or at any foreign University;
- Suitable and fitting scientific CV (post-graduate specialization courses, research activities at public or private institutions, fellowships, grants in Italy or abroad);
- Either at least two years of research activities or enrolment to the third year of a PhD course in the topics related to the present call;



- Basic informatic knowledge;
- Good knowledge of 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 for applicants.

The admission requirements must be fulfilled at the application deadline of this notice of recruitment.

Art. 4 – Application form: terms and conditions

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

- a) By personal PEC (Electronic Certified Email), in conformity with the current legislation on the matter, to the following PEC address: ogs@pec.it.

The application form must be sent at the latest **by 12.30** (half past midday) on the closing date.

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, title of the call, e-mail no. X"). Files with **".zip"** extension are **not** accepted.

- b) By registered mail with notice of delivery to:

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS

Ufficio Affari Generali e Protocollo (Room no.34, 1st floor)

Località Borgo Grotta Gigante, 42/c

34010 Sgonico – TS.

The application form shall arrive at the latest the fifth working day following the deadline of this call.

The official postmark date will serve as proof;

Different methods of delivery will not be accepted.

Only and exclusively for non-national candidates, applications to the call drafted on plain paper and in accordance to the table in annex to the present call (Annex sub 1), with the applicants' handwritten or digital signature according to the usual European standards, may also be sent:

- c) By e-mail, to the following e-mail address: protocollo@inogs.it.

The application form must be sent at the latest **by 12.30** (half past midday) on the closing date.

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, title of the call, e-mail no. X"). Files with **".zip"** extension are **not** accepted.

For points a) and b), the applications not undersigned with handwritten or digital signature as well as the applications received after the deadline will not be considered and consequently excluded from the selection.

Only and exclusively for non-national candidates with reference to the means of transmission laid down in point c) of this clause, all applications not containing the candidates handwritten or digital signature by the usual European standards, as well as all applications received after the set deadline, shall not be considered.



As per point c), in the case of applications sent with handwritten signature, such applications shall be validated and confirmed with a verbal declaration to the Selection Board before the interview.

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

- Surname and name;
- Place and date of birth;
- Residence;
- 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 requested qualifications, with all the details concerning date, place of issue, final mark;
- The candidate's position with reference to the award of other fellowships;
- To be in possession of further requirements as per art. 3 of this call;
- The chosen address for the call;

The candidate shall attach to the application form the following documents:

- 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 declaration: *"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"*;
- **Qualifications and documents** that will be considered useful by the applicant to submit to the Selection Board. These qualifications and documents shall be presented by filling in either a self-declaration affidavit in accordance with art. 46 of the Presidential Decree dated 28.12.2000, no. 445 ([Annex 2](#)), concerning the degree obtained, or a self-declaration affidavit, in accordance with art. 47 of the Presidential Decree dated 28.12.2000, no. 445 ([Annex 3](#)), concerning, for example, the implemented research activities, the list of publications, etc.;
- **A copy of a valid Identity Document.**

Special needs candidates, with reference to their own disability, shall mention their specific request for assistance in the application form.

Art. 5 – Exclusions

The following reasons constitute ground for ex-officio exclusion:

- Applications not submitted within the fixed deadline referred to in Art. 4;
- Applications sent under conditions other than those referred to in Art. 4;
- Partial or total omission of the information requested as per Art. 4;
- Failure to submit the application form duly signed as per Art. 4;
- Failure to submit a copy of a valid identification document attached to the application form;
- Failure to comply with any of those requirements as per art. 3;

Candidates are admitted to the selection with right to reserve approval. The Director of the Human Resources Department has the faculty to exclude a candidate at any time in case of lack of the above-mentioned requirements by providing a valid justification.



If the motivations that determined the exclusion are verified after the completion of the selection, the General Director, with a valid justification, provides automatic forfeiture of any rights connected to the participation in the selection itself.

Exclusion of candidates shall also be applied in case of failure in presenting accurate declarations requested by the application form in accordance with Presidential Decree dated 28.12.2000, no. 445.

Art. 6 – Selection Board

The Selection Board is appointed by an official Act of the OGS General Director.

The Selection Board is composed of a President and 2 members, one of which will also act as secretary and minute taker.

In application of art. 249 of the Decree dated 19.05.2020 n. 34, the Selection Board can meet by videoconference call, ensuring in any case the complete communication security and traceability.

The Selection Board communicates the results to the candidates after each evaluation session.

The place of the meeting held through videoconference call is that of the President. 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 existence of the required conditions of participation. It is necessary to specify these elements in the minutes, together with the indication of the technologies used by each member.

Art. 7 - Qualifications, interview and ranking list

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.

Only candidates obtaining at least 21/30 points in the evaluation of qualifications will be admitted to 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 firstly adopts the criteria and the parameters to which it intends to apply, with specific reference to the characteristics of the research project.

The evaluable titles are:

- Master's Degree obtained at any Italian or foreign University;
- PhD title obtained either in Italy or abroad;
- PhD course or equivalent either in Italy or abroad;
- Specialization diplomas and certificates of attendance to post lauream training courses, both in Italy and abroad;
- Research activities in public or private organizations based on contracts, fellowships or assignments, both in Italy and abroad in the subject of the selected research open position;
- Knowledge and use of the scientific programming languages;
- Publications on scientific journals and any other contribution to reports, documents and books in the subject of the selected open position.



In particular, a Phd title, or an equivalent title obtained abroad, would be considered as an asset for the purpose of awarding the fellowship.

After the qualifications have been evaluated, the Selection Board makes a shortlist of applicants who will be invited to the interview.

The list of applicants admitted to the interview and details on date, time and place will be published at least 20 days prior on the website of OGS <https://www.inogs.it/it/job-opportunities>.

Such publication effectively constitutes an official notification.

INTERVIEW (max 70 points out of 100)

The interview will take place according to art. 13 of the present selection notice and 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 present 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.

Candidates failing to present a valid identification document or in possession of expired ID cards will not be admitted to the interview.

After completion of the interviews, the Selection Board makes a shortlist, in descending order, of the final ranking obtained by the candidates.

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 or winners will be published by the President of the Selection Board with the same forms of advertising provided in the call.

Art. 8 – Ranking list approval and appointment of the grant winner

The Director of the Human Resources Department, once ascertained 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 fellowship 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.

The grants available following renunciation or resolution of the grant winner may be awarded to the candidates indicated in the ranking list within the limits of its duration.

Art. 9 – Awarding of the fellowship

After budget and provisions verification, the OGS General Director, bestows the fellowship 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 above-mentioned notice.

Once obtained the declaration of acceptance from the winner candidate, a contract between the General Director of OGS and the grant winner is prepared and signed, a document which defines the terms and the research activities object of the collaboration.

Concerning taxation all the regulatory provisions referred to art. 4 of the Law dated August 13 1984 no. 476 are applied to research fellowships and, in terms of social security, the applicable law is referred to art. 2, paragraphs 26 and following, Law no. 335 dated August 1995 and subsequent amendments; for maternity leave matters the applicable law refers to provisions as per Ministerial Decree dated July 12 2007, published on the Official Journal no. 247 dated October 23 2007 and for matters concerning sick leave, art. 1 paragraph 788 of Law no. 296 dated December 27 2006 and subsequent amendments. During the maternity leave, the allowance paid by the Italian Social Security Institute (INPS) with reference to art. 5 of the above-mentioned decree dated July 12 2007 is integrated by OGS up to the total amount of the research fellowship

Art. 10 – Implementation of the research activities

The activities of the fellowship 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 scientific tutor must coordinate the activities of the fellowship holder together with other participants in the programme, by providing all the necessary indications for the implementation of the activity object of the collaboration.

The activity of the fellowship holder under any circumstances foreshadows a status of employment.

Art. 11 – Fellowship obligations

The fellowship 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 fellowship the holder must submit to OGS a final research report that includes the obtained results. The report must be approved by the tutor.

All technical, scientific and administrative data and information gathered by the fellowship holder during the implementation of the activity shall be considered confidential and therefore the use such information for purposes different than those for which the grant has been awarded.

Concerning the protection of the intellectual property of the results or products obtained on the performance of the activity of the fellowship please refer to OGS regulations on patents and protection of intellectual property.

Art. 12 – Personal data management

Controller: Istituto Nazionale di Oceanografia e di Geofisica Sperimentale.

Responsible for data protection: luca.zenarolla@avvocatiudine.it

Under the article 13 of EU Regulation 2016/679, required personal data will be exclusively collected and treated for purposes strictly connected to the selection procedure also with the use of computerized procedures, according to current law and regulations concerning the implementation of this kind of activity.

Providing such data to OGS is necessary for the evaluation of participation requirements and of the holding of titles: failure to provide these data may compromise such evaluation.

Data will only be kept for the period required by the selection, and successively for storing purposes only.



Art. 13 – Extraordinary provisional measures

In application of art. 249 of the Decree dated 19.05.2020 n. 34, according to articles 247 and 248 of the same Decree, which was converted in Law no. 77 on 17 July 2020 with amendments, this competition can be held by means of videoconference call through the use of digital technology described in letters a) and b) of art. 248 of the above-mentioned Decree, that is to say: videoconference call interview, ensuring in any case the adoption of technical solutions that guarantee the principle of publicity, the participant's identification, the communication security and its traceability. In this regard, the Selection Board will publish on the OGS website specific indications on the system requirements necessary for the connection of every person interested in taking part.

Art. 14 – Final proceedings

For matters not covered by this notice selection please refer to Grant and Research Fellowship rules of OGS. This call for individual grant will be posted on the OGS website, on the call's website of MIUR and on the European Commission Internet portal Euraxess.

In accordance to the Law dated 7/08/1990 no. 241 art. 5 the Responsible of the Proceedings is the Director of the Human Resources Department.



Application form

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

Call _____ /2020 – _____

_____.

The undersigned (name) _____ (surname) _____
born _____ (Province _____) on _____ and
resident in _____ address _____ n.

requests to participate in the selection of the call in object.

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

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

- to hold a degree (please cross the type of degree you hold)
 - preceding Italian university's reform pursuant Ministerial Decree no. 509/99
 - master's degree pursuant Italian Ministerial Decree no. 509/99
 - master's degree pursuant Italian Ministerial Decree no. D.M. 270/04
- in _____ obtained on date
_____ from the University of _____
with the score of _____ / _____

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 for applicants: _____



- to be in possession of the PhD in _____
_____ obtained on date _____
from the University of _____

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 for applicants _____

- to have carried out the PhD course without fellowship (to be declared only in the case of fellowship not awarded by the University)
from _____ to _____

- to not have been awarded an "assegno di ricerca" fellowship before;

- the following "assegno di ricerca" fellowships have been awarded:

from _____ to _____
at _____

from _____ to _____
at _____

from _____ to _____
at _____

- to currently hold an "assegno di ricerca" fellowship

from _____ to _____
at _____

- to be eligible for the further criteria (see art. 3 of the present call)

- to hold the following titles that may be evaluated:



**Istituto Nazionale
di Oceanografia e di Geofisica Sperimentale**

To be attached to this form:

To wish to receive all communication referring to this call to the following address:

(street) _____

(city/town) _____

(ZIP code) _____

Telephone _____

e-mail _____

Date _____

Signature



**Istituto Nazionale
di Oceanografia e di Geofisica Sperimentale**

The undersigned _____

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

- Italian
- English

Signature



SELF DECLARATION AFFIDAVIT

(art. 46 Presidential Decree 28.12.2000 no. 445)

The undersigned (name) _____ (surname) _____
born in _____ (province _____) on _____ and resident
in _____ address _____ no. _____

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)
 - preceding Italian university's reform pursuant Ministerial Decree no. 509/99
 - master's degree pursuant Italian Ministerial Decree no. 509/99
 - master's degree pursuant Italian Ministerial Decree no. D.M. 270/04

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

- to be in possession of the PhD title in _____
_____ obtained on date _____
at the University of _____

OR

- to be enrolled on a PhD course in _____
at _____
from (date) _____ and to have completed no. of year(s) _____

- to be in possession of the following specialisation title 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



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

The undersigned (name) _____ (surname) _____
born in _____ (province _____) on _____
and resident in _____ address _____ no. _____
aware that false declarations are punishable by law (art. 76 Presidential Decree 28.12.2000 no. 445)

DECLARES

_____ (1)

Purely by way of example here below a list of options that may be used in the self-declaration affidavit

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

_____ of no. _____ pages, is a true copy of the original.

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**.