

Bando 2019-12-AR

D.D. n. 277 del 26/02/2019

Subject: Selection procedure by qualifications and possible interview for the assignment of one research grant entitled: “Study of solar wind variability at kinetic scales based on Solar Orbiter-SWA plasma suite observations”

**NATIONAL INSTITUTE FOR ASTROPHYSICS
INSTITUTE FOR SPACE ASTROPHYSICS AND PLANETOLOGY**

The Director

- In accordance with the Statute of the Istituto Nazionale di Astrofisica (INAF), adopted by INAF Board on March 7th, 2011, and entered into force on May 1st, 2011 and subsequent modifications and integrations
- In accordance with INAF organization and functioning Regulation, approved with resolution n. 44/2012 by INAF Administrative Board on 21 June 2012 and become active on 21 July 2012, and subsequent modifications and integrations
- In accordance with INAF Personnel Regulation, approved with resolution n. 23/2015 by INAF Administrative Board on 11 May 2015, published on G.U.R.I. “Serie Generale” n. 253 on 30 October 2015, and adopted on 1 November 2015
- In accordance with Italian Law n. 240, of 30 December 2010, Article 22 on the awarding of research fellowships, and subsequent modifications and integrations;
- In accordance with the INAF Regulations for the awarding of research fellowship approved by INAF Administrative Board on 22 June 2011 and adopted on 1 July 2011, and subsequent modifications and integrations;
- In accordance with the resolution n. 79 of INAF Administrative Board dated 19 July 2016 (report n. 09/16) appointing Dr. Fabrizio Capaccioni as Director of IAPS for three years starting from 01 August 2016 and the following Decree of INAF President, n. 41 dated 28 July 2016, appointing Dr. Fabrizio Capaccioni as Director of IAPS;
- In accordance with Italian Law n. 11, of 27 February 2015, Article 6, which extends the overall duration of research grants “asegni di ricerca”;
- In accordance with the note of INAF Scientific Directorate prot. n. 673/2018;
- In accordance with the guidelines for the awarding of research fellowship approved by INAF Administrative Board on 23 March 2018;
- In accordance with the guidelines regarding the recruitment of temporary personnel, approved by INAF Board on 29 January 2019;
- In accordance with Italian Law n. 196 of 30 June 2003 and subsequent modifications and integrations, containing the “Personal Data Protection Code”;
- In accordance with the Presidential Decree n.68 of 11 February 2005, containing the “Regulation for the use of certified electronic mail, under Article 27 of Italian Law n.3 of 16 January 2003;
- **In accordance with** Italian Law n. 82 of 7 March 2005 and subsequent modifications and integrations, containing the “Digital Administration Code”;
- **In accordance with** Italian Law n. 183 of 12 November 2011 and in particular Article 15 concerning replacement declarations and certificates;
- **In accordance with** the Note of INAF Administrative Directorate prot. 82/DA dated 8 March 2002, containing clarifications on the awarding of research grants and fellowships by INAF Astronomical Observatories and subsequent modifications and integrations;
- **In accordance with** the Note of the Director of INAF Department of Research Structures prot. n. 472/07/AC/PI of 23 January 2007 containing indications about the publication of selection calls on INAF website;

- **In accordance with** MIUR Decree n. 102 of 9 March 2011, establishing the minimum grant for research fellowships;
- **In accordance with** INAF Regulations for the awarding of research fellowships approved by INAF Administrative Board with resolution n. 44/2011 on 22 June 2011 and adopted on 1 July 2011, after subsequent modifications by INAF Administrative Board resolutions n. 8/2011 of 13 October 2011 and n. 2/2012 of 10 January 2012;
- **In accordance with** Italian Conversion Law n. 11 of 27 February 2015 and subsequent modifications of Italian Law n. 192 of 31 December 2014 containing: “Extension of the time limits established by legal provisions” and in particular art. 6 comma 2-bis stating that “The total duration of the working relationship established in accordance with art. 22, comma 3, of Italian Law n. 240 of 30 December 2010, is extended by two years”;
- **In accordance with** the Note of the Director of INAF Department of Research Structures prot. n.5974/2011 of 16 September 2011 having as its object “Publication of call for application for Research Fellowships”;
- **In accordance with** INAF Statute, approved by the Administrative Board with resolution n. 42 of 25 May 2018, and entered into force on 24 September 2018;
- In accordance with the “Guidelines for the awarding of research fellowships” approved by INAF Board on 29 January 2019,
- **In accordance with** the Guidelines for the awarding of Research Fellowships, approved by the INAF Board on 29 January 2019, according to which INAF can award research fellowships, in line with art. 22 comma 1 of the Italian Law n. 240 of 30 December 2010, based on the following types:
 - Research Training Fellowship ranging from 20.000 to 26.000 Euros
 - Postdoctoral Research Fellowship ranging from 28.000 to 32.000 Euros
 - Young Researcher Fellowship ranging from 34.000 to 38.000 Euros
 - Special Research Fellowship ranging from 20.000 to 38.000 Euros
- **In accordance with** the resolution of INAF Board n. 83/2018 dated 18 September 2018 regarding the “Approval of the “Report” by INAF President specifying a “National Program for Research Fellowships” and in particular the paragraph entitled “Proposals for the revision of the defining criteria of the research fellowship program”;
- **In accordance with** the Note prot. 6023, Tit. III – cl. 3, by INAF Scientific Director having as its object “Urgent call for the consideration of the contents and dispositions of the resolution n. 83/2018 concerning the awarding of research fellowships”;
- **In accordance with** the request by dr. R. Bruno CoP.I. of the project SWA-Solar Orbiter;
- **Ascertained** the financial coverage with the funds of the projects “Supporto scientifico per la realizzazione degli strumenti Metis, SWA/DPU e STIX nelle fasi D/E”(ACCORDO ATTUATIVO n. 2018-30-HH.0 DELL' ACCORDO QUADRO TRA ASI E INAF) allocated in balance sheet 2019 on chapter 1.05.08 – “Scholarship and research grant”.

DECREES

Art. 1- Research Project

A call is open for a selection procedure on the basis of candidates' qualifications, possibly integrated by an interview, for the assignment of one “Post-Doc” research grant of the duration of one year entitled: “Study of solar wind variability at kinetic scales based on Solar Orbiter-SWA plasma suite observations”.

Research will be carried at INAF-Institute for Space Astrophysics and Planetology. The successful candidate will work in collaboration with staff of the project.

Planned activity:

The activity carried out initially will be preliminary to the analysis of the data generated by the SWA plasma suite onboard the Solar Orbiter. The selected candidate will have to become familiar with the characteristics of the three SWA plasma sensors and their operating modes.

Subsequently, the selected candidate should collaborate with our group to produce computer codes dedicated to a preliminary visualization and basic scientific analysis of the data provided by SWA. This s/w will be validated initially on datasets already available from other interplanetary missions. Successively, it will be used on SWA data products, once available, to select particular time intervals of interest. The selected intervals will be analyzed in detail for a characterization of the plasma at kinetic scales as a function of the heliocentric distance and wind conditions, including transient phenomena. Finally, particular effort will be spent on a better understanding of

the link between fluid and kinetic turbulence to shed light on the dissipation mechanisms responsible for heating the plasma in the solar wind.

The Research Grant, aimed at the specified project, is not thought to satisfy the personnel needs of the Institute or of the project itself, but offers the opportunity of carrying out research activities in the framework of the project to candidates who believe that it can be important for their professional growth.

Candidates presenting academic qualifications achieved abroad not yet declared equivalent in compliance with the existing Italian legislation, will be evaluated by the committee. The committee can admit them to the selection subject to further acknowledgement of the foreign qualification, provided that candidates attach to their application a copy of the documents proving the application for the recognition of the presented qualification. The selected candidate if having presented a foreign academic qualification not yet recognized, has 30 days from the end of the selection procedure, to provide the equivalence or equipollence of the qualification on pain of being excluded from the ranking list.

The above activity will be carried out under the scientific supervision of dr. R. Bruno and dr. G. Pallocchia

Further questions on the scientific project can be addressed to dr. R. Bruno and/or dr. G. Pallocchia (e-mail: roberto.bruno@inaf.it; giuseppe.pallocchia@inaf.it).

Art. 2 – Requirements for participation

Participation to the selection is reserved to Italian and foreign citizens holding the following minimum requirements:

Ph.D. degree either in Physics or Astronomy or Astrophysics or equivalent degree, issued by an Italian (or foreign) Advanced Studies Institute or University.

Or

degree either in Physics or Astronomy or Astrophysics or equivalent degree issued according to the previous or actual Italian University regulations which would formally entitle to the admission to a doctorate awarded by an Italian university or by a foreign university, together with at least three years of documented experience in scientific or technological activities after the degree;

Applicants are required:

substantial experience on data analysis of solar wind plasma and magnetic field observations with particular emphasis on turbulence and dissipative processes

As additional assets will be considered:

Knowledge of working principles of electrostatic analysers for space plasmas and derivation of plasma moments in phase space

proficiency in wavelet analysis

knowledge of either MATLAB or IDL or Python or any other similar software for data analysis

good knowledge of the English language

Art. 3 – Application

1 - Applications must be submitted in English by means of:

- hand-delivery to the IAPS 'area concorsi' which will acknowledge the receipt date.
- From certified e-mail, including all the required documents in PDF format, sent to areaconcorsi.iaps@legalmail.it, you can send the documentations to the indicated address only if you have a personal certified mail (pec), pay attention not ordinary mail, by 22/08/2019– 23:59 CET. Only certified emails sent through one of the email providers included in the list of the AgID (Agenzia dell'Italia Digitale) in according to DPR no.68 of 11/02/2005.
- registered mail with acknowledgement receipt or express courier to INAF-Istituto di Astrofisica e Planetologia Spaziali – Via Fosso del Cavaliere 100, 00133 Roma. The applications need to arrive by 22/08/2019 – 23:59 CET (postmark date will not suffice).

Applications are to be received by and not after 23:59 (CET) on 22/08/2019. Late submissions will not be considered.

Applications which are not consistent with the attached forms (Annexes 1 and 2) or without the applicant's signatures will be excluded from the selection procedure.

The applications must be delivered reporting on the envelope or in the e-mail subject the following sentence: "Application selection 2019-12-AR".

Aware that false declarations are against the law and that the Administration will carry out random checks on their accuracy, the applicant under his/her own responsibility, must clearly and precisely state in the application the following:

name(s) and surname, date and place of birth, nationality, place of residence and address for correspondence;

that s/he satisfies all the requirements described in article 2 of this Call;

that s/he is aware of and is not ineligible under any of the restrictions described in article 4 of this Call.

The lack of any of the above mentioned declarations will determine the exclusion from the selection procedure for incomplete application.

For selection purposes the applicants:

shall directly state any academic qualifications in the application form (Annex 1)

In addition

non-EU citizens residing outside Italy, if successful, must produce originals or suitably certified copies of academic qualifications obtained outside Italy.

2 - The following documents have to be submitted:

1. Annex 1 "Application form";
2. Annex 2 "Certification - Declaration in lieu of affidavit (Art. 19 - 46-47 the DPR 28th December 2000, n. 445)";
3. "Curriculum vitae", **signed and dated** by the applicant including a list, if applicable, of grants and fellowships held in the past or in progress;
4. copy of a valid identity document (ID card or passport);
5. list of publications;
6. any other qualification, working task, research activity for public and private institutions and publications consistent with the application;
7. The list of all submitted documents.
8. Annex 3 "Interview Request In Video Conference". For applicants residing abroad: you can make the possible interview remotely by means of a conference call audio and video (e.g. Skype or similar). The candidate who chooses this option must indicate this in the application and make an explicit request by filling out the appropriate form (request for interview Videoconference) and attach it to the application form, together with the front/back copy of a readable valid identity document.

3 - Applicants are admitted to the selection with reserve and may – at any time – be notified of exclusion from the selection procedure for the following reasons:

- submission of the application after the deadline;
- incomplete and/or unsigned application form;
- unsigned curriculum vitae;
- missing copy of a valid identity document;
- non compliance the requirements indicated in paragraph 2.

Should the reasons for exclusion be determined after completion of the selection procedure the applicant will lose any right deriving from participation in the selection procedure; similar loss will be applied to applicants providing any false statement or document.

INAF accepts no responsibility for lost applications or documents when the applicant provided incorrect contact details or failed or delayed in notifying any changes to these details.

Art. 4 - Ineligibility and incompatibility with other funding

Full professors, associate professors and researchers of Italian Universities and employees of Italian public research institutions are all excluded from entering the competition.

The grant is not compatible with the attendance of academic courses as those that formally give access to a doctorate, as well as with Ph.D. fellowships. For employees of the Italian Public Administration (Italian State) unpaid leave of absence is mandatory.

The grant is not compatible with other kinds of fellowships, except for those awarded with the aim of integrating the training or research activity of the fellowship holder with a period spent abroad.

Incomes from working activities, also part-time, carried out continuously are not allowed. On the contrary, limited self-employed occasional work is compatible with the grant, only if it does not affect the research activity and must be authorized in advance by the Director of INAF- Istituto di Astrofisica e Planetologia Spaziali (IAPS).

Retired persons are not eligible for Research fellowship.

Applications are not accepted from candidates who carried out research fellowships under article 22 of Italian Law 240/2010 and integrative for a total period indicated in the current law, including extensions, but excluding the concurrent periods of doctoral studies up to the legal duration of the course and excluding periods of maternity leave or sick leave, in accordance with current legislation. When formally accepting the grant, the successful candidate will provide a declaration of absence of inadmissible conditions.

Art. 5 – Duration of the Research grant

The Research grant is expected to begin in November 2019. The grant is for one year with possible extension of one year depending on the favourable opinion of the scientific leader of the project and on funding availability and in any case within the limits of Article 22 paragraph 3 of Law 240/2010 and subsequent amendments.

Art. 6 – Host Institution

The host institution of the grant is INAF-Institute for Space Astrophysics and Planetology. The successful candidate will have to travel on duty abroad.

Art. 7 – Salary amount

The annual gross salary of the grant is 30,000.00 (thirty thousand) Euros to be paid in deferred monthly payments. This amount does not include the burdens paid by INAF-Institute for Space Astrophysics and Planetology.

Applicable tax regulations are stated art. n. 4 of Italian law n. 476/1984 and subsequent modifications and integrations. Applicable social security rules are stated in art. n. 2, paragraph 26 and following paragraphs of the Italian law n. 335/1995 and subsequent modifications and integrations. Applicable regulations for mandatory maternity leave are provided in the Decree of the Ministry of Labour and Social Security dated 12 July 2007, published in the “Gazzetta Ufficiale” n. 247 dated 23 October 2007. Applicable regulations for sick leave are provided in art. n. 1, paragraph n. 788 of Italian law n. 296 dated 27 December 2006 and subsequent modifications. During the period of mandatory maternity leave the allowance paid by INPS (the Italian National Institute for Social Security) according to art. n. 5 of the above-mentioned Decree dated 12 July 2007 is integrated by INAF up to the total amount of the grant. The period of mandatory maternity leave will not contribute to the duration of the grant.

As for third party liability, the grant holder will be covered by insurance policy at the expense of INAF. This will not cover the civil liability of the grant holder towards INAF.

The grant holder must pay at his/her own expenses an insurance policy against work related injuries.

Accidents insurance will be paid by INAF-IAPS in favour of the fellow, to provide coverage for work related injuries, diseases and invalidity.

Art. 8 – Selection Board and selection procedure

The selection of eligible candidates will be carried out by a Selection Board appointed by the Director of INAF-IAPS. The Selection Board is composed of 3 members, from both Italian and foreign research staff, including also University staff, with expertise in the research field of the position. According to the current regulation, the composition of the Selection Board should comply with gender balance. The president of the Selection Board is nominated in the appointment decree and is chosen among the Board members. The Selection Board Secretary is also appointed in the above-mentioned decree.

The selection is based on qualifications, possibly integrated with an interview. candidates must exhibit their identity documents in order to be admitted to the interview.

The Selection Committee can establish a short list of the eligible applicants to be interviewed, on the basis of qualifications and documented experience in scientific or technological activities concerning the specific subject of the research fellowship. All the activities of the selection procedure (e.g. meetings of the Selection Board, interviews...) can be carried out by using videoconference systems.

Applicants selected for the interview will be formally notified 15 days in advance by e-mail with acknowledgement of receipt, containing the individual evaluation score. The selected candidates who miss the interview will be excluded from the competition. The total ranking score is 100 points, of which 60 points is the maximum score for qualifications and 40 points is the maximum score for the interview. The minimum score in order to access the possible interview is 42/60. The candidates who obtain, in the same test, a score of at least 28/40 will pass the oral examination. At the end of the selection process the selection board will draw up a ranked list based on the sum of the scores obtained both in the qualifications evaluation and the interview. For candidates with the same score on the ranked list, preference will be given to the younger candidate. The approval decree of the selection procedure and the ranked list will be published on the following website: <http://www.iaps.inaf.it/work-with-us/>

Art. 9 – Awarding of the fellowship

The highest ranked candidate will receive written notification of award of the research fellowship.

Within 10 days from receipt of the formal notification of the award he/she must provide a formal declaration of acceptance of the research grant. The declaration will also state that he/she is not subject to any of the exclusion conditions listed in article 4 of this Call.

If the candidate does not provide declaration of acceptance within a time limit of 10 days, he/she will lose his/her entitlement to the research fellowship that is automatically awarded to the next ranked candidate.

Under no circumstances the signing of the contract establishes a subordinate employment relationship or ensures any rights to access to permanent INAF staff positions.

Art. 10 – Fellowship obligations

The holder of the fellowship:

- will start the research activity at INAF-IAPS on the date indicated in the contract, unless prevented by exceptional circumstances, of which the Director of INAF-IAPS must be timely informed;
- will carry out his/her research activities under the supervision of the scientist in charge of the project, R. Bruno and G. Pallocchia;
- is required to issue an activity report every 12 months. The activity reports will be subject to approval from the scientist in charge of the project and will be transmitted to the Director of INAF - IAPS. Approval failure, properly explained by the supervisor, will give INAF- IAPS the right to withdraw the contract;
- is required to send a written note in case of withdrawal, with at least 30 days' notice, otherwise INAF-IAPS is entitled to retain or request the reimbursement of the salary amount corresponding to the missed notice period.

The holder of the fellowship who does not carry out his/her research activity regularly without justifications, or repeatedly fails to fulfill the requirements or, according to the supervisors, R. Bruno and G. Pallocchia shows evident lack of skills with the planned research activities, will incur the withdrawal of the contract.

Temporary suspensions of the research fellowship are due in case of mandatory maternity leave or in case of illness periods exceeding one month or of any other serious reasons. The reasons for suspending the research fellowship must be proved and certified, and promptly sent to the Director of INAF-IAPS.

Art. 11 - Proceedings Responsible

In accordance with Art. 8, paragraph 3 of INAF Regulations on the assignment of research grants, Mr. Matteo Pietrobono (matteo.pietrobono@inaf.it) is the responsible of the selection procedure relevant to this call.

Art. 12 – Applicable regulation

The INAF-IAPS shall comply with the current regulations promoting equal opportunities for women and men, non-discrimination and respect for privacy in processing personal data.

As for the cases not mentioned in this call, INAF-IAPS shall act in compliance with the current regulations concerning Italian public selection procedures.

**The Director
Dr. Fabrizio Capaccioni**



To the Direction of INAF-Institute for Space Astrophysics and Planetology
Via Fosso del Cavaliere 100
00133 ROMA - Italy

I, THE UNDERSIGNED,

(Forename(s))..... Surname).....

Place of birth (City/State/Country)

Date of birth (dd/mm/yy)

Nationality

Gender

Permanent residence address (number/street/town/postal code/Country:

.....

Email address:

agree to the processing of my personal data, in accordance with Italian Leg. Decree n. 196/2003, for the purposes of the present selection procedure.

I, THE UNDERSIGNED,

having read the Call for applications D.D for the appointment of one research fellowship entitled: “.....”

request

to apply for the above mentioned fellowship, and to this end, aware that false declarations are punishable by law and that this Administration will carry out random checks on the accuracy of the declarations made by candidates,

declare

under my own responsibility

that I hold the following Research Doctorate (PhD) awarded by..... on date..... Title of thesis.....
.....;

that I hold the following educational qualifications....., awarded by.....Date(dd/mm/yy).....;

- that I have professional knowledge of the English language;
- that I have years of documented experience in scientific or technological activities;
- that I am aware of the restrictions described in Article 4, of the Call for applications for this research fellowship;
- that I have never received a research award as per art. 22, Italian Law 240/2010;
- that I have previously received a research awards as per art. 22, Italian Law 240/2010 and, in particular I have been the recipient of¹:

¹ Indicate the number of months for which the award was used and the name of the institution granting the award. Please provide details of each award, for example, if you have had two awards of 24 months each at the same institution indicate these as two separate awards on two different lines.

- a research fellowship entitled
.....,
- at (name of the institution).....,
- beginning.....ending.....total months
- a research fellowship entitled
.....,
- at (name of the institution).....,
- beginning.....ending.....total months
- a research fellowship entitled
.....,
- at (name of the institution).....,
- beginning.....ending.....total months
- that I am not a retired person;
- that I am aware that, under art. 22 Italian Law 240/2010, the research fellowship:
cannot be held contemporary with attendance at academic courses, “laurea specialistica”
academic courses, and “laurea magistrale” academic courses, as well as with attendance at
Ph.D courses with fellowship;
- cannot be held contemporary with other fellowships of whatever kind, except those
awarded with the aim of integrating the training or research activity of the fellowship
holder through a period spent abroad;
- cannot permit aggregation of income from working activities, also part-time, carried out
continuously.
- that I wish to receive any communication relating to the selection at the following
address and that I will give due notice of any change of address:
- Address (number/street/city /postal ode/Country):
- Email address:

I attach to this form:

1. Annex 2 “Certification - Declaration in lieu of affidavit (Art. 19 - 46-47 the DPR 28th December 2000, n. 445)”;
2. “Curriculum vitae”, **signed and dated** by the applicant including a list, if applicable, of grants and fellowships held in the past or in progress;
3. copy of a valid identity document (ID card or passport);
4. list of publications;
5. any other qualification, working task, research activity for public and private institutions and publications that the applicant deems appropriate to submit;
6. The list of all documents submitted.

Done at Date.....

Signature (not authenticated)

ANNEX 2

**Certification and Self-Declaration in lieu of affidavit (FAC-SIMILE)
(Art. 19 - 46-47 the DPR 28th December 2000, n. 445)**

**DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE
DICHIARAZIONE SOSTITUTIVA DI ATTO DI NOTORETÀ
(Art. 19 – 46 – 47 del D.P.R. 28 Dicembre 2000, n. 445)**

I, the undersigned,

(Forename(s))..... Surname).....
Place of birth (City/State/Country)
Date of birth (dd/mm/yy)
Nationality
Gender
Permanent residence address (number/street/town/postal code/Country:
.....
Email address:

aware that false declarations are punishable by law and that this Administration will carry out random checks on the accuracy of the declarations made by candidates

self-declare

- that the content of the attached “curriculum vitae” is true
- That the documentation produced in copy: of the original

.....
.....
.....

Done at Date.....

Signature (not authenticated)*

** the photocopy of a valid identity document of the signer must be attached*

**ANNEX 3
INTERVIEW REQUEST IN VIDEO CONFERENCE**

(FAC-SIMILE)

I, the undersigned / a (name)
(last name)
Place of birth
Birth date
Nationality
Place of residence (country, town, postcode, street, n.),
.....
E mail

wonder

to be admitted to the oral exam provided by the call 2019- -AR entitled
"....."

through videoconference procedures for this purpose communicate the following data:

1 - platform used to connect via the web

2 - address for the connection

(Place and Date)

(Signature, not authenticate) *

** the photocopy of a valid identity document of the signer must be attached*