

Year 2022

Determinazione n. 20

SUBJECT: Open call for application for n. 1 junior postdoctoral grant with title: *"Laboratory testing of X-ray detectors for space missions"*

THE DIRECTOR

- HAVING REGARD TO** the Legislative Decree July 23, 1999, n. 296, that foresees and disciplines the *"Istituto Nazionale di Astrofisica"* ("INAF") and includes *"Norme relative all'Osservatorio Vesuviano"*;
- CONSIDERED** that, in particular, art. 1, paragraph 1, of the Legislative Decree July 23, 1999, n. 296, defines the *"Istituto Nazionale di Astrofisica"* as an *"...ente di ricerca non strumentale ad ordinamento speciale con sede in Roma e con strutture operative distribuite sul territorio, nel quale confluiscono gli osservatori astronomici e astrofisici..."*;
- HAVING REGARD TO** the Legislative Decree 4 June 2003, n. 138, that disciplines the *"Riordino dell'Istituto Nazionale di Astrofisica"*, as modified and integrated in the "Annex 2" of the Legislative Decree January 21, 2004, n. 38, that foresees and disciplines the *"Istituzione dell'Istituto Nazionale di Ricerca Metrologica ("INRIM")* following art. 1 of the law 6 July 2002 n. 137" and, in particular, art. 17, paragraph 1, letter b);
- HAVING REGARD TO** the Legislative Decree 30 June 2003, n. 196, and subsequent amendments and additions, regarding the Code on protection of personal data, *"Codice in materia di protezione dei dati personali"*;
- HAVING REGARD TO** the Decree of the President of the Republic 11 February 2005, n. 68, in which it has been issued, as per art. 27 of the law 26 January 2003, n. 3, the *"Regolamento che disciplina l'utilizzo della Posta Elettronica Certificata"*, and, in particular, art. 16;
- HAVING REGARD TO** the Legislative Decree 7 March 2005, n. 82, and subsequent amendments and additions, regarding the *"Codice della Amministrazione Digitale"*;
- HAVING REGARD TO** the law n. 165 of 27 September 2007, that defines the principles and guiding criteria of the *"Delega al Governo in materia di riordino degli Enti di Ricerca"* and, in particular, art. 1, 35 and 36;

- HAVING REGARD TO** the Legislative Decree 31 December 2009, n. 123, that disciplines the *“Riordino degli Enti di Ricerca in attuazione dell’articolo 1 della Legge 27 settembre 2007, numero 165”*;
- HAVING REGARD TO** the Law n. 240 of 30 December 2010 regarding *“Norme in materia di organizzazione delle università, del personale accademico e reclutamento, nonché la delega al governo per incentivare la qualità e l’efficienza del sistema universitario”*, in particular art. 22 and 29;
- CONSIDERER** that art. 6, paragraph 2 bis, of the Law Decree of 31 December 2014, n. 192, regarding *“Proroga di termini previsti da disposizioni legislative”*, and converted, with amendments, to Law 27 February 2015, n. 11, foresees that *“la durata complessiva dei rapporti instaurati ai sensi dell’articolo 22, comma 3, della legge 30 dicembre 2010, numero 240, è prorogata di due anni”*;
- HAVING REGARD TO** the *“Regolamento (UE) 2016/679 del Parlamento Europeo e del Consiglio del 27 aprile 2016 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali, nonché alla libera circolazione di tali dati e che abroga la direttiva 95/46/CE (Regolamento generale sulla protezione dei dati)”* (*“RGPD”*), starting from 24 May 2016 and valid since 25 May 2018;
- HAVING REGARD TO** the new Statute of the *“Istituto Nazionale di Astrofisica”*, that has been finally approved by the Administration Council with Resolution on 25 May 2018, n. 42, and published on the web site *“Sito Web Istituzionale”* on 7 September 2018;
- CONSIDERED** therefore, that the new Statute of the *“Istituto Nazionale di Astrofisica”* entered in force on 24 September 2018;
- HAVING REGARD TO** The *“Disciplinare di Organizzazione e Funzionamento dell’Istituto Nazionale di Astrofisica”*, approved by the Administration Council with Resolution on 21 June 2012, n. 44, and revised by the same Administration council with Resolution 19 December 2013, n. 84, on 19 February 2014 n. 7, on 16 December 2015, n. 28, and on 19 October 2016, n. 107, in particular, art. 17;
- HAVING REGARD TO** the *“Regolamento sull’amministrazione, sulla contabilità e sull’attività contrattuale dell’Istituto Nazionale di Astrofisica”*, prepared under art. 18, paragraph 1 and 3, of the Legislative Decree 4 June 2003, n. 138, approved by the Administration Council with Resolution 2 December 2004, n. 3, and published in the Official Journal of the Italian Republic, n.

300 of 23 December 2004;

- HAVING REGARD TO** the "**Regolamento del Personale dello Istituto Nazionale di Astrofisica**", approved by the Administration Council with Resolution of 11 May 2015, n. 23, published in the Official Journal of the Italian Republic, n. 253 of 30 October 2015 and then modified with the Board of Directors Resolution number 8 on February 25, 2021;
- HAVING REGARD TO** the "**Disciplinare per il conferimento di assegni per lo svolgimento dell'attività di ricerca dell'INAF**" approved with resolution of the Administration Council of INAF n. 44/2011 of 22/06/2011, valid starting from 1 July 2011 and subsequent amendments and addition;
- HAVING REGARD TO** the Resolution n. 8/2011 of 13/10/2011 that approves the "**Modifiche al Disciplinare per il conferimento di assegni di ricerca**";
- HAVING REGARD TO** the "**Linee guida per l'arruolamento del personale non di ruolo**", approved with Resolution by the Administration Council of INAF n. 22/2018 of 23 March 2018, providing indications regarding the calls for research program activity;
- HAVING REGARD TO** the note of the Scientific Director of 5 February 2018, Prot. 673, title V, cl. 1 regarding "**Indicazioni sulla formulazione delle richieste di emissione di bandi relativi all'arruolamento di personale non di ruolo**";
- HAVING REGARD TO** the Resolution of the Administration Council of INAF, n. 8, of 29 January 2019, of approval of the amendments to the "**Linee Guida provvisorie per il conferimento di assegni per lo svolgimento di attività di ricerca**";
- CONSIDERED** that art. 7 c.3 of the provisional Guidelines for the conferment of research grants, foresee that the grant holder is required to take out an insurance policy against the risk of accidents, which must be shown when the contract is formalized. In case of research grants funded through research projects of the European Union or other foreign institutions, international or supranational, where specifically indicated in the grants or contracts, the cost of the insurance policy burden on the project funds.
- HAVING REGARD TO** the Resolution of 15 May 2020, n. 40, in which the Administration Council approved the "**Definizione della nuova Policy per il conferimento di assegni per lo svolgimento di attività di ricerca e per il reclutamento di personale con rapporto di lavoro a tempo determinato**";

- CONSIDERED** the note of the Director General of 16 May 2020, n. 2491, regarding the *"Adozione della Disciplina per la razionalizzazione delle procedure di reclutamento di personale con rapporto di lavoro a tempo determinato e per il conferimento di assegni per lo svolgimento di attività di ricerca e regolamentazione del regime transitorio"*;
- HAVING REGARD TO** The resolution of 21 December 2017, number 110, by which the Board of Directors assigned the new *"Struttura di Ricerca"*, deriving from the merger of the *"Istituto di Astrofisica Spaziale e Fisica Cosmica"* and the *"Osservatorio Astronomico di Bologna"* the denomination of *"Osservatorio di Astrofisica e Scienza dello Spazio"*
- HAVING REGARD TO** the Decree of the INAF President of 22 December 2017 n. 92, in which Dr. **Andrea Comastri** was appointed as Director of the *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*;
- HAVING REGARD TO** the Resolution of the Director General of INAF, 22 December 2017, n.334, in which Dr. **Andrea Comastri** has been appointed the role of Director of the *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*;
- HAVING REGARD TO** the Resolution of 22 December 2020, number 96, by which the Board of Directors designated, among others, Dr. **Andrea Comastri**, with effect from **1 January 2021** and for the duration of three years, as Director of the *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*;
- HAVING REGARD TO** the Decree of the INAF President n. 14/2020, of 30 December 2020, in which Dr. **Andrea Comastri** was appointed as Director of the *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*;
- HAVING REGARD TO** the Decree of the Director General of INAF, 30 December 2020, n.188, in which Dr. **Andrea Comastri** has been appointed the role of Director of the *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*;
- HAVING REGARD TO** the request n. 0091, dated 1st February 2021, by Dr. Riccardo Campana, employee of *"Osservatorio di Astrofisica e Scienza dello Spazio di Bologna"*, as the Scientific supervisor of the research grant;

CONSIDERED

that the research grant, as defined in the aforementioned request, will be based on the project ("Obiettivo Funzione" 1.05.04.03.35) "*Missione cinese eXTP (ref. Marco Feroci) - Partecipazione italiana alla attività di fase B1 - Accordo Attuativo ASI-INAF n. 2020-3-HH.0*" for which Dr. Riccardo Campana is the local reference at INAF-OAS Bologna; and that possible subsequent extensions will be based either on the same project or on other research projects funded in the future, subject to approval from the PI of the projects, and including the aforementioned lines of research among its scientific program;

VERIFIED

the financial availability of sufficient funds allocated in the Obiettivo Funzione 1.05.04.03.35 "*Missione cinese eXTP (ref. Marco Feroci)- Partecipazione italiana alla attività di fase B1 - Accordo Attuativo ASI-INAF n. 2020-3-HH.0*";

HAVING REGARD TO

the authorisation received from the Scientific Directorship on 2 February 2022 (ticket number 386724)

as stated, and expressed above

DECREES

Art. 1 – Object of the Call

A selection is called, based on qualifications and possible interview, for n. 1 grant for the duration of 12 months for carrying out research activities on: "***Laboratory testing of X-ray detectors for space missions***".

The activity will take place within the framework of the Phase B study of the Chinese mission eXTP, which involves also a large European and Italian collaboration. The successful candidate will perform laboratory testing and characterisation activities on X-ray detectors and their readout electronics, and related documentation activities.

This selection procedure is contextually aimed:

- to offer the opportunity of professional growth to research fellows, or fix-term employees who are willing to get engaged in both national or international research environments in the perspective of turnover and mobility, which means to employ specific professional competences for fix-term projects and/or research activities.
- to fill positions that stands outside programs of permanent staff recruitment, and consequently do not represent binding prerequisite for employment as permanent staff of the institute.

The grant holder will carry out the activity at the INAF - Osservatorio di Astrofisica e Scienza dello Spazio di Bologna, under the scientific supervision of Dr. Riccardo Campana.

The responsible for the procedure of the present call is Dr. Gianpaolo Bellinva.

Art. 2 - Requirements for participation

Participation to the selection is reserved to Italian and foreign citizens holding the following minimum requirements (besides what reported in the "Regolamento del Personale INAF" mentioned above in the premises):

- Master's degree issued according to the previous Italian University regulation, or degree (level 2) in Aerospace Engineering, Physics or Astronomy, or equivalent degree awarded by foreign Universities or Advanced Studies Institutes.

The applicants who have obtained a degree in a foreign University, not already declared compliant with the Italian law, will be admitted to the evaluation provided they properly fill the corresponding form (annex D), and enclosing to the application an Italian translation of the degree, with a self-declaration of the conformity with the original.

The winner of the selection, in the case the degree was obtained in a non-EU country, is required, according to the current laws, to transmit to the INAF/OAS administration the "Declaration of value" for the degree, obtainable from the Italian consular or diplomatic offices of the country of origin.

Preferential requisites will be a knowledge of the development and management activities for a space mission, and in general of the principles of detection and data acquisition in the field of high energy astrophysics, and of X and gamma-ray detectors in particular.

Moreover, the following items will be considered as preferential for the selection:

- Holding a specialisation degree in topics related to the present selection.
- Professional master diploma, related in topics related to the present selection.
- Internship, work, or research experiences in topics related to the present selection.

An excellent knowledge of the English language is also required.

Art. 3 - Ineligibility and incompatibility with other funding

The research grant of the present call cannot be awarded to Italian permanent staff of any University, public institutions, and Italian research public institutes according to art. 8 of the DPCM 30 December 1993, n. 593 and subsequent amendments and additions.

The grant cannot be held contemporarily with other fellowships of whatever kind (University and other institutions or research institutions), except those awarded with the aim of integrating the training or research activity of the fellowship holder through a period spent abroad.

The fellow must issue an explicit declaration of the non-existence of the aforementioned inadmissible accumulation situations, upon acceptance of the grant.

The public employee who may be the recipient of the check referred to in this announcement may be admitted after being placed on leave without pay, according to the current regulatory and/or contractual provisions of the sector, by their own administration.

Art. 4 – Duration of the Research fellowship

The Research fellowship will last 12 months to begin by **15 April 2022**, the exact initial date could be reasonably discussed with the grant holder and is renewable — with action of the Director of INAF-OAS Bologna, after specific request by the scientific supervisor and responsible of the funds, verified the necessary financial coverage — for a number of annuities not larger than the maximum foreseen by the INAF disciplinary concerning the postdoctoral grants.

Any renewals could burden financial funds associated with projects of INAF-OAS Bologna, in line with the scientific goals described in the art. 1.

Possible delays of the starting date of the research grant, or possible interruption of the research activity, will be allowed in accordance with current legislation.

The motivated interruption of the research activity implies the suspension of the salary for the same period in which the research activity is interrupted, and consequently the final deadline for the expiry of the research grant is postponed by a period equal to the duration of the interruption.

Art. 5 – Salary amount, and insurance policy

The grant is worth € 20,000 (twenty thousand/00) gross per year, inclusive of all charges payable by the grant holder, and will be paid in deferred monthly instalments.

The amount does not include any cost related to missions that might be necessary to pursue the research activity linked to the research grant; in that case the INAF legislation for such missions will apply.

For what concerns tax, social security matters, compulsory maternity leave and sick leave, the resolutions according to art. 22, paragraph 6, of the Law 240 of 2010 and provisions of the INAF Regulations will be applied.

The grant holder is required to take out an insurance policy against the risk of accidents, which must be shown when the contract is formalised.

Art. 6 - Application, deadline

Applications must be submitted in English or Italian, strictly following the attached scheme (Annex A), dated, signed and accompanied by the required documentation, and must be sent by the deadline of **21 March 2022**, exclusively by mean of the Certified Electronic Post at the address inafoasbo@postecert.it indicating in the subject the following: **“Bando AdR Laboratory testing of X-ray detectors for space missions”**. Applications sent via the Certified Electronic Post including the declarations according to the DPR 445/2000, will be considered valid if the author is identified through the access credentials relating to the personal user of Certified E-mail. Applications that are not consistent with the attached form (Annex A) or without the applicant’s signature will be excluded



from the selection procedure.

Foreign citizens can send the application and the associated declarations (and communications) by mean of ordinary electronic mail (e-mail) to the address inafoasbo@postecert.it indicating in the subject: **"Bando AdR Laboratory testing of X-ray detectors for space missions"**. An email will be sent to the candidate confirming receipt of the application.

Given that false declarations are punishable by law and that the Administration may carry out random checks on the veracity of the statements made, the candidate must clearly and precisely declare in the application under his own responsibility:

- name and surname, date and place of birth, nationality, residence, and address for sending correspondence,
- to possess all the requirements described in art. 2 of this announcement.
- not to be in some of the incompatibility conditions described in art. 3 of this announcement.

The lack of the aforementioned declarations will result in exclusion from the selective procedure for incomplete application.

For the purposes of selection, the candidate:

- can self-certify the possession of academic qualifications through Annex A.

In addition

- Citizens of non-member states of the European Union residing outside Italy, if successful, must produce the original or a certified copy of the qualifications obtained outside Italy.

To participate in this selection, the **following documents** must be submitted:

1. **Annex A - application form**
2. **Annex B - substitutive declaration of certification** - substitutive declaration of deed of notoriety (art.19 - 46 - 47 of Presidential Decree 28 December 2000, n. 445)
3. **"Curriculum vitae", signed and dated** by the candidate, which also indicates any scholarships and research grants previously or in progress.
4. **Copy of a valid identity document.**
5. **List of publications.**
6. **Any other qualification**, work experience, research activity at public or private institutions and publications that the candidate deems appropriate to include
7. **List of all submitted documents.**

Candidates are admitted to the selection with reserve and may, at each stage, be notified of their exclusion from the selection for the following reasons:

- the application was submitted after the deadline.
- lack of signature of the application.
- lack of signature of the curriculum vitae.
- lack of a copy of a valid identity document.
- lack of the requirements indicated in art. 2.

If the reasons for exclusion are ascertained after the conclusion of the selection procedure, the candidate will lose all rights deriving from participation in the selection; similarly, we will proceed if the production of false declarations is ascertained.

All the documents need to be in the original form or certified copy; in the latter case by means of self-

certification according to art. 46 of the DPR 28/12/2000, n. 445, or by means of a copy with attached the aforementioned self-certification, according to art. 19 of the DPR 28.12.2000 n. 445 and through a self-declaration according to Artt. 46 and 47 of the DPR 28.11.2000 N. 445, following the scheme shown in the attachment B; (especially for the publications which are not present in the ADS database). Any declaration (and self-certification) must be accompanied with a copy of a valid identity document.

INAF - OAS Bologna assumes no responsibility for the dispersion of communications resulting from inaccurate indication of the address by the candidate or omitted or late communication of the change in the address indicated in the application, nor for any disservices related to the computer network.

Disabled applicants, according to Law n. 104 of 5 February 1992, must request specifically, in the application, related to their handicap, regarding the necessary aid, as well as the possible need for additional time for the completion of any interview, according to the aforementioned law.

The applications that are not signed, those received after the deadline and those that do not comply with what described in this article will not be taken into consideration.

Art. 7 - Exclusion from selection

Candidates are admitted to the selection with reserve, subject to successful checks on the candidate's qualifications according to art. 2 of this Call. The justified exclusion from the selection can be ordered at any time by the Director of the INAF-OAS Bologna.

The candidates excluded from the selection, with justified provision by the Director of INAF-OAS Bologna, will be notified by registered letter with acknowledgment of receipt or by certified email (PEC), if the candidate provided an address for the certified email (PEC).

Art. 8 - Selection Committee and selection procedure

The selection of the candidates will be performed by a Selection Committee appointed according to art. 9 of the INAF Disciplinary by the Director of INAF - OAS Bologna and is composed by three members, from either Italian or foreign research staff or from the University, with expertise in the research field of the position offered in this announcement (art. 1).

The Selection Committee will first define the selection criteria to be applied on the titles and the possible interview, according to art. 2, and before accessing all the documentation provided by the candidates.

For the evaluation of the qualifications and the possible interview, the Selection Committee complies with the provisions of the Disciplinary INAF, in particular to artt. 10 and 11.

At the end of the evaluation of the qualifications, a ranked list of the candidates is produced by the Committee, with a score associated to each candidate. The list, signed by the President and Secretary of the Committee, will be posted at the same day of examinations at INAF - OAS Bologna.

If necessary, the Committee can integrate the evaluation of the qualifications by adding an interview



that will be performed only electronically. Applicants selected for the possible interview will be informed at least 15 days before the date of the interview.

In order to perform the interview electronically, candidates need to fill the form (annex C) specifying the preferred platform (e.g., Skype, etc.). A valid account needs to be specified in the form. The same account will be used by the Selection Committee to arrange and carry out the interview. The online interview will be performed the same day of the other (ordinary) interviews and will have public access. The Selection Committee will notify the online interview following the same procedure used for the notification of the traditional interviews.

INAF does not provide for the reimbursement of any expenses incurred by candidates for participation in any interview.

At the end of the evaluation, the Committee will draw up a final ranked list according to the score assigned to each candidate and will indicate the grant holder corresponding to the candidate with the highest score. In case of equal score, the youngest candidate is selected.

The Committee will send the ranked list to the Director of INAF/OAS Bologna per the final approval and subsequent posting on INAF/OAS Bologna website.

Art. 9 - Awarding of the fellowship

After the publication of the final ranked list, the Director of INAF - OAS Bologna will notify the highest ranked candidate of the award of the grant.

Within 10 days from the date of receipt of the formal communication, the winner will issue a formal declaration of acceptance of the research grant, at the same time certifying that is not in any of the impediments provided for by art. 4 of this announcement.

If the candidate does not provide a declaration of acceptance within a period of 10 days, the right to the research grant that can be assigned to the next ranked candidate forfeits the right to. The stipulation of the contract does not in any case give rise to a subordinate employment relationship or to rights regarding access to the roles of INAF.

In the case that the fellow is an employee of a public administration, before starting the research activity, they must submit a copy of the placement on unpaid leave.

As regards the risks of civil liability towards third parties, the fellow will be covered by insurance stipulated by INAF. This insurance does not cover the civil liability of the holder of the check towards INAF.

The grant holder that will interrupt without justified reason the research activity, during the foreseen assigned period, or will be responsible for serious or repeated failures, or proves that he does not have sufficient aptitude for carrying out the research activity, will be declared discharge from the assigned grant after the justified provision of the Director of INAF - OAS Bologna, after request by the scientific Supervisor.



The grant holder may withdraw from the contract after giving written notice of at least 30 days in advance. In case the alert is not properly notified in advance, INAF - OAS Bologna has the right to withhold the amount corresponding to the notice period not given.

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

Art. 10 Processing of personal data

1. According to art. 13 of the *"Regolamento (UE) 679/2016 del Parlamento Europeo e del Consiglio del 27 aprile 2016 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali, nonché alla libera circolazione di tali dati e che abroga la direttiva 95/46/CE"* also known as *"General Data Protection Regulation 679/2016 (GDPR)"*, l'*"Istituto Nazionale di Astrofisica - Osservatorio di Astrofisica e Scienza dello Spazio"*, as the owner of the procedure, informs that the processing of the data made available by the candidates who submit an application to participate in this Call, or acquired by the *"Osservatorio"*, it is aimed solely at carrying out the activities, acts and provisions envisaged by the aforementioned procedure and will be carried out by the persons responsible for its execution, including the members of the Examining Commission.

2. The processing of personal data will be performed with suitable procedures, aimed to pursue the purposes specified in the previous paragraph, even in the event of any communication to third parties.

3. Personal data are necessary to verify the requisites needed for the participation in the selection procedure; any missing personal data may preclude such verification.

4. Candidates have the rights according to Art. 15 and subsequently, of the *"General Data Protection Regulation 679/2016 (GDPR)"* and in particular, have the right to access their data, to request their rectification, cancellation, limitation to the processing, as well as to oppose the processing, which may be exercised by sending a proper request to the *"Istituto Nazionale di Astrofisica"*, located in Rome, Viale del Parco Mellini n. 84, postal code 00136, following the procedures defined in the next paragraph.

5. The rights indicated in the previous paragraph may be exercised, without any formalities, by sending a request to the *"Responsabile della Protezione dei Dati"* dell'*"Istituto Nazionale di Astrofisica"*:

a) by registered letter with acknowledgment of receipt to the address specified at the paragraph 4 of this article.

b) by e-mail to the following address: rpd@inaf.it

c) by certified e-mail (PEC) to the following address rpd-inaf@legalmail.it

6. Candidates who believe that the processing of their personal data is carried out in violation of the provisions contained in the *"Regolamento Generale sulla protezione dei Dati"* and those according to the present article can lodge a complaint to the Guarantor for the protection of Personal Data, according to Art. 77 of the aforementioned Regulation, or to appeal to the competent judicial authority, according to Art. 79 of the aforementioned Regulation.

Art. 11 – Advertising

The full advertising of this announcement is arranged through publication on the website of the National Institute of Astrophysics (<http://www.inaf.it/>) and on the website of the INAF - OAS di Bologna (<http://www.oas.inaf.it>).



ISTITUTO NAZIONALE DI ASTROFISICA
OSSERVATORIO DI ASTROFISICA E SCIENZA DELLO SPAZIO DI BOLOGNA

Art. 12 - Final Provisions

For what is not explicitly mentioned in this announcement, INAF-OAS shall act in compliance with the regulations in force concerning public selection procedures, when applicable by analogy.

Bologna, 21 february 2022

The Director

Dr. Andrea Comastri