



Director's Decree n. 83 /2017 dated 24 May 2017

Selection procedure by qualifications and possible interview for the assignment of one post-degree fellowship of the duration of eighteen months, with possible extension, entitled: "Production of the Input Star Catalogue for the Fine Guidance Sensor of the EUCLID satellite" at INAF – Osservatorio Astrofisico di Torino
CUP: C22F16000250007

The Director of INAF – Osservatorio Astrofisico di Torino

In accordance with Legislative Decree, dated 4 June 2003, n. 138 about the "Reorganization of the Istituto Nazionale di Astrofisica (I.N.A.F.) and subsequent modifications and additions";

In accordance with Legislative Decree, dated 31 December 2009, n. 213 about the Reorganization of the Research Institutions in implementation of art. 1 of the Law, dated 27 September 2007, n. 165;

In accordance with President's Decree, dated 28 December 2000, n. 445 and subsequent modifications and additions;

In accordance with art. 15 of the Law, dated 12 November 2011, n. 183;

In accordance with INAF Statute adopted by INAF Administrative Advisory Panel on 7 March 2011 and entered into force on 1st May 2011;

In accordance with INAF guidelines on organization and operation approved by Resolution n. 44/2012 of INAF Executive Board dated 21 June 2012 entered into force on 23 July 2012;

In accordance with President's INAF guidelines dated 16 June 2008, prot. N. 4022, describing the procedure for recruiting of temporary staff and certain rules regarding the awarding of research grants and fellowships on the basis of external funds;

In accordance with the Personnel Regulations, published in the General Series of the *Gazzetta Ufficiale*, dated 30 October 2015, n. 253 (INAF Resolution no. 23/2015);

In accordance with the motivated request (letter dated 20 April 2017, prot. N. 728, Tit III Cl.5 F.618) of Dr. Ronald Drimmel, Principal Investigator (PI) of the Project "*EUCLID phase CD – FGS Star Catalogue*" to issue a selection procedure for the assignment of one post master-degree fellowship of the duration of eighteen months, with possible extension depending on funding availability, entitled: "Production of the Input Star Catalogue for the Fine Guidance Sensor of the EUCLID satellite";

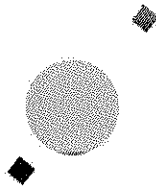
Ascertained that financial coverage is granted through funds assigned to the Project "*EUCLID phase CD – FGS Star Catalogue*", Ob.Fu. 1.05.04.37.07, cap. 1.04.02.03.001 and 1.02.01.01.001, under the forecast budget of INAF – Osservatorio Astrofisico di Torino for the current financial year:

DECREES

Art. 1 – Announcement of selection procedure

A selection procedure is open, on the basis of candidates' qualifications - possibly including an interview - for the assignment of a post-degree fellowship entitled: "*Production of the Input Star Catalogue for the Fine Guidance Sensor of the EUCLID satellite*" at INAF – Osservatorio Astrofisico di Torino.

The principle objective of the position will be to produce an Input Star Catalogue (ISC) to be used by ESA to generate, as needed, Onboard Star Catalogues for the Fine Guidance Sensor of the



EUCLID satellite. The primary source catalogue for the final ISC will be the upcoming Gaia data release, scheduled for April 2018. A preliminary version of the ISC, to be used for testing, is to be produced with currently available data. The successful applicant will work with a team of scientists and technicians on the production of all-sky versions of the ISC and ensure that it meets requirements. The successful applicant will be responsible for the development of production and quality assurance SW pipelines with significant automated checking at all steps. The successful applicant will have a critical role in making a post-delivery performance assessment of the ISC, including identifying areas on the sky lacking sufficient guide stars for FGS tracking. The procedures, software and deliveries will all require formal TASI level technical reports and the successful applicant will have to be available to participate at the TASI milestone meetings.

The PI of the program is **Dr Ronald Drimmel** with the collaboration of the EUCLID-FGS Operations Team at OATo: B. Bucciarelli, M.G. Lattanzi, R. Morbidelli, R. Smart and A. Spagna.

Art. 2 – Term and amount

The fellowship is for **18 (eighteen) months** with possible extension, up to a maximum of 36 (thirty-six) months, depending on the favorable opinion of the scientific leader of the project and on availability of funds.

Expected start date of the fellowship is by July 1, 2017.

The gross income budgeted for the entire **eighteen months** – covered by this call – will be between **30.000,00 (thirty-thousand)** and **46.500,00 (forty-five-thousand-five-hundred)** Euro, depending on experience and qualifications of the successful applicant, as established by the selection committee (art. 5). Whatever the amount, it will be paid in deferred monthly installments. The last instalment will be paid following an end-of-fellowship report signed by the fellow and, for acceptance, by the PI.

If the activity carried out is not considered satisfactory by the PI, the INAF – Osservatorio Astrofisico di Torino, with appropriate formal declaration, may revoke the contract. The fellowship is a full time activity and cannot be held contemporarily with other jobs (for public or private companies), fellowships, grants or allowances of similar kind. Failure to comply with this rule on the part of the successful applicant will result in immediately termination of the fellowship.

Art. 3 – Requirements for participation

Requirements of the position are that, at the time of the application deadline, the applicant must be in possession of:

A1) bachelor-level degree in computer science, astronomy, physics, mathematics or computer engineering, plus at least 4 years of documented relevant experience;

or

A2) masters level degree in computer science, astronomy, physics, mathematics or computer engineering, plus at least 2 years of documented relevant experience;

and

B) working knowledge of spoken and written English;

C) familiarity with an upper level program language such as C++, IDL, or Python.



Italian or foreign citizens holding degree qualifications granted above which the Selection Committee will consider equivalent to the above Italian qualifications are also admitted to participate to the selection procedure.

Experience that will be useful, but not necessarily required for this project, includes:

- Accessing and exploiting databases, in particular MySQL and Oracle
- Accessing and manipulation of large astronomical catalogues
- Production of technical reports in English.
- Familiarity with handling of astronomical data, especially astrometric and photometric data.
- Knowledge of HEALPix.
- Familiarity with web interfaces and php DB access.
- Knowledge of the Gaia mission and recent large sky surveys.
- Knowledge of ESA reporting and delivery procedures.

Art. 4 – Application

Applications are to be written on plain paper and must be consistent with the attached application form (Attachment 1), with the addition of the date and the signature of the candidate, and including the requested supporting documentation.

Applications are to be addressed to the Director of INAF – Osservatorio Astrofisico di Torino, Via Osservatorio n. 20, 10025 Pino Torinese (TO), Italy.

Applications are to be submitted either **by hand** to the Observatory Secretariat Office, from 10 am to 12 Monday to Friday, or **by express courier**, or **by registered letter with return receipt**, or **by email to the certified e-mail address inafoatorino@pcert.postecert.it** as attachments in pdf format, **no later than 14 June 2017**. This deadline is peremptory. Applications sent after the deadline will not be taken into consideration. The date of submission will be attested by the date stamp on the envelope by the dispatching post office or, in the case of e-mail, by the time stamp of the outgoing server. Notice that Italian wanted to submit their application through via e-mail, will have to use and address of certified mail (PEC) to the address indicated above.

All attachments sent with the application must be in PDF format.

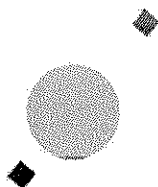
On the application's envelope the following must be clearly quoted: applicant's name, family name and address, and the caption: "*Fellowship - Production of the Input Star Catalogue for the Fine Guidance sensor of the EUCLID satellite*".

According to art. 39 of President's Decree dated 28 December 2000 n. 445, authentication of the candidate's signature on the application is not required. Applications without the applicant's signature will be excluded from the selection procedure.

Unsigned applications and those received after the deadline will not be considered. After the deadline, it will not be allowed to also replace or supplement the documents already submitted.

In the application the candidate must supply the following information in clear and detailed form, under their own responsibility:

1. surname and first name, place (town, country) and date of birth (day/month/year);
2. citizenship;
3. candidate's declaration that she/he is in good standing with the laws with country she/he holds citizenship;



4. place of residence;
5. not to have been in the past or to be at present under any penal sentence. Otherwise the candidate should specify which are still outstanding.
6. To have educational qualification(s) required by art. 3 of this call, indicating date and place of award and final marks;
7. fulfilment of required military service, if existing;
8. to have working knowledge of spoken and written English;
9. if the candidate held in the past or is presently holding other grants or fellowships of whatever kind from private or public institutions. In this case the duration should be specified.
10. postal address where applicants wish to receive communications relevant to the selection, and possibly phone and e-mail contacts.

The following qualifications must be attached to the application:

- 1) a personal declaration (valid as self-certification for both Italian and European Community citizens) that the candidate holds the degree required. See attachment 2.
- 2) candidate's curriculum vitae et studiorum, bearing date and signature of the candidate, including a list, if applicable, of grants and fellowships held in the past as required in art. 3 of the present call.
- 3) all documents and qualifications that the candidate considers useful to submit to the evaluation by the Selection Committee in paper copy or in CDROM conforming to the original.
- 4) list of documents and qualifications submitted.
- 5) non-Italian citizens should attach copy of the University degree inclusive of the list of exams and the degree's final mark, or copy of the equivalent foreign qualification.

The self-certification must bear the date and signature of the applicant and a photo copy of a valid identity document must be attached. In using self-certification the candidate should list the submitted qualifications with details which may enable the Observatory's Administrative Office to verify all personal declarations.

Disabled candidates must explicitly request in the application, in relation to their handicap, any aids needed and the possible need for additional time to complete the interview, as prescribed by the Law, dated 5 February 1992, n. 104.

The Administration does not assume responsibility in case of unavailability of the candidate and for the loss of communications due to incorrect address details or failure or late notification of change of address indicated in the application, nor for any lost mail or telegraph which is attributable to third parties, to chance events or force *majeure*.

Art. 5 – Selection Committee and procedure

Applications will be examined by a Selection Committee consisting of three members and a secretary. Selection of candidates is based on qualifications, with a possible interview, as requested by the selection committee. The general criteria for evaluating scientific and professional titles and the score for each type of qualifications will be defined and minuted by the selection committee before examining the applications submitted. The selection committee may reserve a preliminary estimate of the minimum score that candidates will be required for the evaluation of the qualifications and interview. The evaluation of the qualifications precedes the possible interview and will be carried out on the basis of the documents submitted by the candidates and will take into



account the documented experience related to the statement of research program through the evaluation of the scientific, training and professional curriculum.

The Selection Committee may convene candidates for an in-depth interview to assess their ability to research and preparation in the activities of the selection program. Convened candidates will be notified by registered letter with return receipt or by e-mail at least 10 days before the event. In order to be admitted to the interview, convened candidates must present a suitable identity document.

The Selection Committee will issue a merit ranking, which will be made public by posting to the Observatory's Official Notice Board and website. The official record of the selection and ranking of the candidates will be approved by a decree of the Director of the Observatory. The ranking may be used, in case the declared winner declines the fellowship, and also in the event of an early end to the fellowship, in order to guarantee the completion of the research program for the remaining period.

Art. 6 – Notification to the successful candidate

The Director of the Observatory will send formal notification to the successful candidate of the assignment of the fellowship by registered letter or e-mail and of the starting date and conditions of the fellowship. Within ten days after the notification's receipt the successful candidate will send to the Observatory a formal acceptance of the fellowship without reservation.

In the acceptance declaration the successful candidate will explicitly declare, under his responsibility, that for the full period of the fellowship he/she will not benefit of any other fellowships or of contributions and similar grants, and that he/she will not receive any salaries or income of any kind from public or private Institutions. The fellowship in no way implies an obligation to permanently hire the successful candidate at INAF – Osservatorio Astrofisico of Torino.

The fellowship does not include welfare and social security benefits. The Observatory will carry out tax withholding and payments, whenever appropriate, in the manner prescribed by Italian laws.

In any case, the successful candidate must personally provide for their own accident insurance at no charge to the Observatory, giving written notice to the Administration of the Observatory, before the beginning of the fellowship. According to the limits and procedures, he/she will be part of the coverage provided the policy on civil liability for third parties drawn up by INAF.

By the end of the fellowship, the fellow is required to submit a written report containing the results of the research activity. The fellow may terminate the contract by giving written notice at least 15 days before. In case of default, the Administration has the right to withhold the amount corresponding to the period of notice not given. The remaining grant will be assigned to the following best candidate in the ranking list (Art. 5).

Art. 7 – Processing of personal data

According to art. 13, paragraph 1 of Legislative Decree, dated 30 June 2003, n. 196, the personal data provided by the candidates will be collected at the National Institute of Astrophysics for the purpose of managing this public selection and subsequent reports. The provision of such data is fundamental for assessing the requirements for admission to selection, subject to exclusion from the selection. The same information may only be communicated to the Public Administrations directly concerned with the candidate's legal and economic position. The candidate enjoys the rights



referred to in art. 7 of the aforementioned legislative decree, including the right of access to the data concerning him, the right to rectify, update, complete or erase erroneous, incomplete or collected data in non-compliant terms and the right to oppose them for legitimate reasons. These rights can be claimed against the National Institute of Astrophysics as data controller.

Art. 8 – Applicable regulation and final provisions

For what not expressly mentioned in this call, the general rules related to the conducting of public selections procedures continue to be applicable, when compatible with the following call. The Observatory also ensures compliance with the current rules regarding equal opportunities for men and women.

According to the Law, dated 7 August 1990, n. 241, the person in charge for this selection procedure is **Dr Annalisa Deliperi**.

This call will be published on the Official Notice Board and on the web page of the INAF – Osservatorio Astrofisico di Torino (<http://www.oato.inaf.it>), and on the web page of the National Institute of Astrophysics (www.inaf.it). A copy of this call will be sent to the INAF headquarter and to Astrophysical Research Institutes.

For any clarification on any part of this call, applicants can contact the PI, Dr. Drimmel at e-mail drimmel@oato.inaf.it or phone +39 011 8101926.

Pino Torinese, 24 May 2017



The Director
Dott. Alessandro Capetti



Attachment 1: Application form

To the Director
INAF – Osservatorio Astrofisico di Torino
Via Osservatorio, 20
10025 PINO TORINESE (Torino)

The undersigned (Forename(s)) (Surname)
Place of birth (Town/State)..... Date of birth (dd/mm/yy)
Residence address (number/street/town/postal code/Country):
Fiscal code number

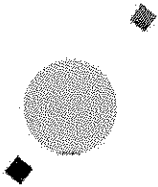
hereby applies to participate to the selection procedure by qualifications and possible interview for the assignment of one post-degree fellowship of the duration of eighteen months entitled: **“Production of the Input Star Catalogue for the Fine Guidance Sensor of the EUCLID satellite”** (Directorial Decree n. 83/2017 dated 24 May 2017) at INAF – Osservatorio Astrofisico di Torino.

According to the art. 46 of the President’s Decree, dated 28 December 2000, n. 445 and subsequent modifications and additions, and aware of the criminal liability provided by art. 76 of the same decree, for the assumptions of false acts and declarations therein, declares:

- a) her/his nationality is:
- b) to enjoy civil and political rights of the State of which she/he holds citizenship;
- c) to have fulfilled required military service or to be exempt from military service;
- d) not to have been in the past or not to be at present under any penal sentence (if liable, please specify)
- e) to hold the following educational qualifications (University, date, final score):
- f) to have working knowledge of spoken and written English;
- g) to have benefited of the following research grants and/or fellowships and/or fixed-term contracts in the past (please indicate the duration and Institution):
- h) to be presently holding the following research grant or fellowship or fixed-term contracts (please specify term and Institution):

The following documents are attached:

- 1. self-certification that the candidate holds the degree required;
- 2. any work or publications which might be useful for qualifying the scientific curriculum as required in the art. 3 of this call (in paper copy or in CD Rom conforming to the original);
- 3. curriculum vitae et studiorum, bearing date and signature, in which are also listed:
 - past fellowship and/or research grants, specifying the period,



- experiences useful as “preferred qualifications” as required in the art. 3 of this call;
- 4. list of publications and qualifications submitted;
- 5. declaration according to the template of Attachment 2.

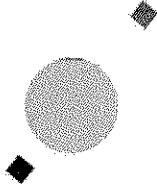
The undersigned wishes to receive communications concerning the selection at the following postal address (number/street/town/postal code/State) and specifying, if possible, phone, fax and email contacts :

.....

The undersigned authorizes the Administrative Office of the INAF – Osservatorio Astrofisico di Torino to use and store her/his personal data only for the purpose of the present selection.

Place and date (dd/mm/yy)

Applicant’s signature (*not to be authenticated*)



Attachment 2: self-certification

REPLACEMENT DECLARATION OF CERTIFICATION AND AFFIDAVIT
(Art. 19 – 38 – 46 – 47, President’s Decree, 28 December 2000, n. 445)

The undersigned (Forename(s)) (Surname)
 Place of birth (Town/State)..... Date of birth (dd/mm/yy)
 Residence address (number/street/town/postal code/Country):

as candidate to the selection for one post-degree fellowship announced by INAF – Osservatorio Astrofisico di Torino with Director’s Decree n. 83/2017, dated 24 May 2017, aware of the penalties provided in case of false statements by the Penal Code and other laws and the loss of benefits achieved (art. 75 and 76 of President’s Decree 445/2000), under his personal responsibility,

DECLARES and SELF-CERTIFIES

- 1) that the curriculum attached to the application corresponds to truth;
- 2) that copies of titles, documents and publications submitted conform to the original;
- 3) to hold the following degree in
 - Date of award: (dd/mm/yy).....
 - Awarding University:
 - Final score:
- 3) to hold the following qualifications:
 - Fellowships and research contracts/grants at private and/or public institutions:
 - Other:

Place and date (dd/mm/yy).....

Applicant’s signature (*not to be authenticated*)

Note. A photocopy, not authenticated, of a valid identity document of the applicant must be attached to the application.

