



D.D. n. 30/15

Selection procedure based on qualification and possible interview for one postdoctoral research fellowship (Assegno di Ricerca, Categoria A) as part of the science project:

VIPERS: unveiling the combined evolution of galaxies and large-scale structure at 0.5<z<1.2 (funded by INAF PRIN 2014).

THE DIRECTOR OF THE "OSSERVATORIO ASTRONOMICO DI BRERA"

Taking into account	the "Decreto Legislativo 4 giugno 2003, n. 138 - Riordino dell'Istituto Nazionale di Astrofisica (INAF)" published on G. U. n.140, 19 June 2003;
Taking into account	the INAF "Disciplinare di organizzazione e funzionamento";
Taking into account	the INAF "Regolamento sull'amministrazione, sulla contabilità e sull'attività contrattuale";
Taking into account	the INAF "Personnel Rules and Regulations";
Taking into account	the INAF Statute, approved on 7 March, 2011, and effective as of 1 May 2011;
Taking into account	Italian Law n. 240, 30 Dec 2010, art. 22;
Taking into account	the INAF Regulations for the awarding of research fellowships;
Given	that the financial coverage of the fellowship is granted by PRIN INAF 2014 - CRA 1.05.01.94.04;

DECREES

Art. 1 – Research project

A selection based on titles and qualifications, possibly integrated by an interview, is open to award one research fellowship, "Assegno di Ricerca – Tipologia A", category POST-DOC, entitled :

VIPERS: unveiling the combined evolution of galaxies and large-scale structure at 0.5<z<1.2

VIMOS Public Extragalactic Redshift Survey (VIPERS – **ESO Large Programme P182.A-0866**), has just been completed. It used VIMOS spectrograph at ESO VLT to densely and accurately map an unprecedentedly large volume of the Universe at 0.5<z<1.2. VIPERS is the largest redshift survey of galaxies ever performed at ESO: with an allocated budget of 440.5 h of observations has delivered

~ 100,000 galaxy redshifts within a total volume of $5 \times 10^7 h^{-3} Mpc^3$. This makes it the only highredshift survey comparable in **both** volume and galaxy number density to local (z~0.1) state-ofthe-art samples, in practice a high-z equivalent of the 2dFGRS. VIPERS possess an extensive suite of ancillary data: the UV (Galex) and infrared (J, K band) proprietary data and overlapping public surveys (UKIDSS and SWIRE, XMM-LSS), that enable to characterize quantitatively in a robust manner physical properties of galaxies like luminosity, color, star-formation rate and stellar mass (see the project web site www.vipers.inaf.it).

The successful applicant will perform research in collaboration with Dr. Angela lovino and the other members of the Milano research unit with the goal of fully exploiting VIPERS potential for galaxy evolution studies.

More specifically the successful applicant will collaborate to the effort of environment parametrization (the definition of groups, filaments and voids in the whole VIPERS data-set, taking advantage of VIPERS-like mock catalogs) and will be working on multi-dimensional galaxy classification, with an emphasis on statistical studies of galaxy properties as a function of environment.

The goal is to shed light on the so-called green valley population of galaxies and the evolutionary mechanisms that cause galaxies to transition from one class to another.

Spectra co-adding will be used to study the underlying stellar populations for galaxy samples grouped according to different criteria (masses, colors, environment).

Art. 2 – Requirements

Applicants must fulfill the following requirements, under threat of being excluded, in order to participate in the selection:

- PhD degree in Astronomy or Physics or equivalent, obtained from an Italian or foreign university or, equivalently, university pre-doctoral degree in the same fields plus 3-year post-graduate research experience;
- Good command of the English language.

Art. 3 – Application procedure

Applications should be sent **in electronic form** (PDF), to the following e-mail address: <u>postdoc VIPERS@brera.inaf.it</u> and in CC to Dr. Angela Iovino to the address: <u>angela.iovino@brera.inaf.it</u>. Applications received within September 15, 2015 will be given full consideration. Please quote reference "PRIN2014 Postdoctoral Fellowship" as e-mail Subject.

A. The applicant must state clearly and precisely in the application form, under his/her own responsibility:

- name(s) and surname, date and place of birth, nationality, place of residence and address for correspondence;
- that he/she satisfies all the requirements described in article 2 of this Call;
- that he/she 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.

B. The applicant should send the following documents:

- (1) Complete Application Form, as provided in attachment to this announcement;
- (2) Curriculum vitae, **signed and dated by the applicant**, detailing on past experience on the subject of this fellowship;
- (3) Statement of research interests and qualifications;
- (4) List of publications;
- (5) Copy of a valid identity document (ID card or passport);
- (6) The name and e-mail address of two contact persons who may provide reference letters upon request

In case he/she is awarded the postdoctoral fellowship the successful candidate will have to provide the OA-Brera administration, before taking up the position, with:

- copy of the PhD certificate or of equivalent foreign academic qualification.

INAF accepts no responsibility for the loss of applications or documents, where due to the applicant having provided incorrect contact details or having failed or delayed in notifying changes of these details, or to problems with postal delivery not due to INAF.

Art. 4 – Ineligibility and incompatibility with other funding

The Research fellowship cannot be held either by INAF employees holding both permanent and non-permanent contracts, nor by regular employees of Institutes listed in article 22, paragraph 1 of Italian Law n. 240/2010. Fellowship holders are not allowed to enroll in a "Laurea Specialistica", or "Laurea Magistrale" (Master Level) degrees, or to enter a PhD program covered by a separate fellowship. For employees of the Italian Public Administration, a compulsory unpaid leave of absence is foreseen.

The fellowship cannot be held simultaneously 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. Aggregation of income from working activities, also part-time, carried out continuously is not accepted. Instead, limited self-employed occasional work is compatible with the fellowship, only if this is not prejudicial to the research activity carried out for INAF. This must be authorized in advance by the Director of INAF/OA-Brera, where most part of the research activity is carried out.

When formally accepting the fellowship, the successful candidate will issue a declaration of absence of inadmissible simultaneous fellowships/fellowships.

Retired persons are not eligible for Research fellowship.

Art. 5 – Duration of the Research fellowship

The Research fellowship is initially awarded for **12 months** and can be extended for a maximum total duration of **2 years** (excluding periods of sick leave or maternity leave, in accordance with current legislation), upon positive assessment after the first year by the responsible of the research project, Dr. Angela lovino.

Art. 6 – Host Institution

The fellow will carry out the research at the Brera premises of INAF Osservatorio di Brera in collaboration within the larger Milano research group that has been actively involved in various large surveys, including VVDS, COSMOS, zCOSMOS, VIPERS, Euclid.

Art. 7 – Salary

The gross yearly salary for this position will be **28,000.00 (Twenty-eight-thousand/00) Euro**. This amount is net of burdens to be charged to INAF/OA-Brera and will be paid in deferred monthly installments.

Applicable fiscal rules are the provisions of art. n. 4 of Italian law n. 476/1984 and subsequent modifications and integrations. Applicable social security rules are art. n. 2, paragraph 26 and following paragraphs of the Italian Law n. 335/1995 and subsequent modifications and integrations. Applicable rules for obligatory maternity leave are provided in the Decree of the Italian Ministry of Labour and Social Security dated 12 July 2007, published in the "Gazzetta Ufficiale" n. 247, October 23rd 2007. Applicable rules for sick leave are provided by art. n. 1, paragraph n. 788 of Italian law n. 296, December 27 2006, and subsequent modifications.

During the period of obligatory maternity leave, the allowance paid by INPS (Italian National Institute for Social Security) according to art. n. 5 of the above Decree dated 12 July 2007 is

supplemented by INAF up to the total amount of the fellowship. The period of obligatory maternity leave will not contribute to the duration of the fellowship foreseen by the contract.

Art. 8 – Selection Committee and selection procedure

The selection will be performed by a Selection Committee appointed by the Director of INAF/OA Brera and is composed of three members, including the scientist in charge of the project. The selection is based on qualifications, possibly integrated by an interview. The Selection Committee can establish a short list of the eligible applicants to be interviewed, on the basis of titles and qualifications and documented experience in the scientific or technological activities on the specific subject of the research fellowship. If approved by all members of the Committee, the interviews can be performed via video-conference, to ease the procedure for foreign candidate and reduce costs. Applicants selected for the interview will be summoned with 15 days notice.

The total ranking score is 100 points: a maximum of 70 for titles and qualifications, and a maximum of 30 for the interview. At the conclusion of the selection procedure the Selection Committee will produce a ranked list.

The approval decree of the selection procedure and the ranked list will be published on INAF/OA Brera web site: "http://www.brera.inaf.it".

Art. 9 – Awarding of the fellowship

The highest-ranked candidate will receive a written notification with an offer of the research fellowship, which will be anticipated by e-mail to assure a speedy process. Within 10 days from receipt of the formal notification of the award she/he must provide a formal declaration of acceptance of the fellowship, or of withdrawal. The declaration can also be anticipated by electronic mail. In case no declaration is received, the candidate is considered as withdrawn and thus excluded. The committee can then move down the ranking and repeat the procedure with the second-ranked candidate, and so on, until the fellowship is accepted.

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 – Starting date and fellowship obligations

Expected starting date of the research fellowship is **1** November **2015**. The holder of the fellowship:

will start the research activity on due date, as for the contract with INAF/OA-Brera, unless
prevented by force majeure or exceptional circumstances, of which the Director of INAF –
OA Brera must be timely informed;

- will carry out her/his research activities under the supervision of the Principal Investigator of the project, Dr. Angela Iovino, who will also monitor the fellow's progress;
- is required to issue periodical activity reports as established in the contract. The activity
 reports will be subject to approval by the project supervisor. Approval failing, duly justified
 by the supervisor, will give INAF OA Brera the right to terminate the contract;
- is required to send a written note in case of withdrawal, with at least 30 days notice, otherwise INAF/OA-Brera will be entitled to retain or request the reimbursement of the salary amount corresponding to the notice time-span she/he has failed to send.
- The fellowship provides accident and civil availability insurance. The insurance policy doesn't cover civil availability of the fellowship older towards INAF.

The holder of the fellowship who fails in carrying out her/his regular research activity, without producing justified reasons or lacks repeatedly to fulfill requirements or, according to the evaluation of the scientist in charge, eventually shows evident lack of skills at the planned research activities, will incur in the termination of the contract.

Temporary suspensions of the research fellowship are due in case of obligatory maternity leave or in case of illness lasting longer than one month or to any other serious reason. The reasons for suspending the research fellowship must be proved and certified, and promptly sent to the Director of INAF/OA-Brera.

Art. 11 – Personal Data

In accordance with art. 13, paragraph 1 of the Italian Legislative Decree n. 196/2003 and subsequent modifications, personal data provided by the candidates will be used exclusively for the purposes of this selection. Candidates wishing to obtain further information, or to exercise their rights under art. 7 of the above mentioned Legislative Decree, may contact the Responsible for the administration of this call.

Art. 12 – Responsible Administrative Employee

The Responsible Person for this Job announcement processing is Dr. Angela Iovino

Art. 13 – Applicable regulation

INAF/OA-Brera shall abide by provisions in force promoting equal opportunities for women and men, non-discrimination and respect of privacy in processing personal data.

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

The present call will also be published, according with art. 8 of INAF rules and regulations on "Assegni di Ricerca", on the following web sites: <u>http://www.inaf.it</u> and http://www.brera.inaf.it

Milano, 24/7/2015

The Director Dr. Gianpiero Tagliaferri

ANNEX 1: APPLICATION FORM

(TO BE SIGNED AND SCANNED INTO A PDF FILE TO BE E-MAILED TO THE ADDRESS PROVIDED BELOW)

INAF – Osservatorio Astronomico di Brera

Via Brera, 28

20121 Milano (MI)

ITALY

e-mail: angela.iovino@brera.inaf.it

I, THE UNDERSIGNED,

(Forename(s))	
(Surname)	

Place of birth (Town/State).....

Date of birth (dd/mm/yy)

Nationality

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 for an "Assegno di Ricerca" (research fellowship) entitled:

VIPERS: unveiling the combined evolution of galaxies and large-scale structure at 0.5<z<1.2

APPLY

to the above mentioned position, and to this end, being aware that false declarations are punishable by law under art. 76 of Italian Presidential Decree n. 445/2000 and that this Administration will carry out random checks on the accuracy of the declarations made by candidates,

DECLARES

under his/her own responsibility and in accordance with articles 46 and 47 of Italian Presidential Decree 445/2000, that:

- 2. that I have a professional level of knowledge of the English language;
- 3. that I am aware of the restrictions described in Article 4, of the Call for applications for this research fellowship;
- 4. that I have never received a research award as per art. 22, Italian Law 240/2010;
- 5. that I have previously received a research awards as per art. 22, Italian Law 240/2010 and, in particular I have been the recipient of:

1. a research fellowship entitled,
at (name of the institution),
beginningtotal months
2. a research fellowship entitled
at (name of the institution),
beginningendingtotal months
3. a research fellowship entitled

I.N.A.F. - Istituto Nazionale di Astrofisica Sede Legale - Viale del Parco Mellini, 84 00136 ROMA - Codice Fiscale 97220210583 P.Iva 06895721006 Osservatorio Astronomico di Brera Via Brera, 28 - 20121 MILANO - Telefono +39 02 72320300 - Fax +39 02 72001600

Via E. Bianchi, 46 - 23807 MERATE - Telefono +39 0272320500- Fax +39 0272320601

at (name of the institution)....., beginning......ending......total months......;

- that I am not under any similar contract for research activities at INAF or any other Italian or foreign institution;
- 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 contemporarily with attendance of a "Laurea Specialistica", or a "Laurea Magistrale" degrees, as well as with attendance of PhD courses with fellowship;
 - cannot be held contemporarily 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 other 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/town/postal code/Country):

Email address:

To be attached to this form:

- **Curriculum vitae**, **signed and dated by the applicant**, detailing on past experience on the subject of this fellowship;
- Statement of research interests and previous qualifications;
- List of publications;
- Copy of a valid identity document (ID card or passport);

The Undersigned declares his/her consensus for his/her personal data to be treated respecting the Italian Law "Decreto Legislativo" n. 196/2003 and subsequent modifications and integrations, in order to fulfill the procedures necessary for the present Call.

Date

Signature

ANNEX 2: CV DECLARATION

(TO BE SIGNED, SCANNED INTO A PDF FILE AND MERGED INTO A SINGLE PDF FILE AS COVER OF YOUR CV. THEN PLEASE MAIL IT TO angela.iovino@brera.inaf.it)

I, THE UNDERSIGNED,

aware that false declarations are punishable by law under Article 76 of Presidential Decree no. 445 of 28th December 2000, and that this Administration will carry out random checks on the accuracy of the declarations made by candidates

DECLARE UNDER MY OWN RESPONSIBILITY

and in accordance with Articles 46-47 of Presidential Decree no. 445 of 28th December 2000 ("SELF-EXECUTED CERTIFICATE AND SELF-EXECUTED AFFIDAVIT")

THAT THE ATTACHED CV REPORTS TRUE STATEMENTS AND FACTS.

The Undersigned declares his/her consensus for his/her personal data to be treated respecting the Italian Law "Decreto Legislativo" n. 196/2003 and subsequent modifications and integrations, exclusively to fulfill the procedures necessary for the Call, for which this statement is made.

Date

Signature

I.N.A.F. - Istituto Nazionale di Astrofisica Sede Legale - Viale del Parco Mellini, 84 00136 ROMA - Codice Fiscale 97220210583 P.Iva 06895721006 Osservatorio Astronomico di Brera Via Brera, 28 - 20121 MILANO -Telefono +39 02 72320300 - Fax +39 02 72001600 Via E. Bianchi, 46 - 23807 MERATE -Telefono +39 0272320500- Fax +39 0272320601