

Decreto n. 79/2014

*Selection procedure based on qualification and possible interview for the awarding of one research fellowship entitled: “Galaxy stellar populations across the cosmic time: perspectives with latest generation instruments and surveys” Category: A/Post-Doc (in accordance with Article 22, Law 240/2010, and Grant Agreement n. 326466)*

**THE DIRECTOR OF INAF - ASTROPHYSICAL OBSERVATORY OF ARCETRI**

- Having seen** the Statute of the Istituto Nazionale di Astrofisica (INAF), adopted by INAF Administrative Council on 7 March 2011 and entered into force on 1 May 2011;
- in accordance with** Italian Law n. 240 dated 30 December 2010, Article 22;
- having seen** the INAF Regulations for the awarding of research fellowships approved by INAF Administrative Council on 22 June 2011, Resolution n. 06/11 and subsequent modifications and integrations;
- considering** it appropriate to issue an announcement of competition for the award of a research fellowship;
- given** the availability of finance from the project “SteMaGE – Towards an unbiased view of the role of Stellar Mass in Galaxy Evolution (hereinafter referred to SteMaGE), Grant Agreement n. 326466, and entitled “Galaxy stellar populations across the cosmic time: perspectives with latest generation instruments and surveys”- cap. 1.05.08 – CRAM 1.05.02.83 FP7 SteMaGE - C11J13000010006 (ref. Stefano Zibetti);
- in accordance with** the notice prot. n. 3669/2010 on may 27th 2010, issued by the Director of Dipartimento Strutture di Ricerca of INAF, which subordinates the starting of the scientific activity to the effective assignment of the project and funds allocation;

**Art. 1 – Research project**

A selection based on qualifications, possibly integrated by an interview, is open to award one research fellowship, funded under the project “SteMaGE - Towards an unbiased view of the role of Stellar Mass in Galaxy Evolution” (hereinafter referred to as “SteMaGE”), Grant Agreement n. 326466, and entitled “Galaxy stellar populations across the cosmic time: perspectives with latest generation instruments and surveys”, category A/Post-Doc.

The present fellowship aims at exploring the opportunities offered by latest generation instruments and telescopes in which the Arcetri Astrophysical Observatory is involved, in the context of the studies of the evolution of the stellar content of galaxies since  $z > 3$ . In particular, we want to

investigate the impact of high spatial resolution and sensitivity (granted by large aperture telescopes, possibly equipped with adaptive optics, and/or space facilities, coupled with high sensitivity optical/NIR imagers and spectrographs) on our ability to derive the physical parameters of galaxies' stellar populations, such as mass, mean age and chemical enrichment, and to eventually constrain the evolutionary history of galaxies in a cosmological context. Feasibility studies may be done both via real data at intermediate/high redshift obtained with the current state-of-the-art instruments and surveys (including the public ESO survey VANDELS), and via simulations based on low redshift observations. One point of particular interest concerns the exploitation of high spatial resolution to resolve the internal structure of galaxies and characterize the local properties of the stellar populations, in order to highlight the internal mechanism of evolution and the impact of external interactions. Among the possible studies in this context, the study of the link between supernovae and host stellar populations (globally *and* locally) would be of great interest for the extragalactic group in Arcetri. A key aspect of this fellowship is the use of spatially resolved spectroscopic data of nearby galaxies, drawn from the CALIFA survey and analyzed in the context of the "SteMaGE" FP7 project, to which the fellow is expected to make substantial contribution: the goal is to understand the role of local scales in determining the properties of stellar populations and simulate the feasibility of such studies at high redshift. The research will be done under the scientific responsibility of Stefano Zibetti and Filippo Mannucci.

### Art. 2 – Requirements

In order to participate in the selection, applicants must possess, on pain of exclusion:

- PhD degree in Astronomy or Physics or Engineer's degree awarded by an Italian university or by a foreign university;
- or
- Degree in Astronomy or Physics or Engineer's degree which would formally entitle for the admission to a doctorate, awarded by an Italian university or by a foreign university, together with at least three years of successive documented experience in scientific or technological activities.

The following knowledge, skills and experience will be considered as preferential qualifications:

- In-depth experience with SED and spectral analysis of galaxies concerning stellar populations
- Experience with optical and NIR spectroscopy, single object and integral field

### Art. 3 – Application procedure

Applications must be submitted in English as closed envelope by "Raccomandata A/R", authorized carrier (ex. DHL, FedEx, UPS, etc.) or, in person, at the Office Protocol to the address INAF-Osservatorio Astrofisico di Arcetri, Largo Enrico Fermi 5, 50125 Firenze (ITALY). Alternatively, the application can be submitted using PEC (Posta Elettronica Certificata: no ordinary e-mail) to the following PEC address: [inafoarcetri@pcert.postecert.it](mailto:inafoarcetri@pcert.postecert.it)

**Applications must arrive no later than midday (UT) on November 21, 2014.**

Late submissions will not be considered.

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

The application must be delivered reporting on the envelope or the PEC (Posta Elettronica Certificata) subject **“Application for postdoc position at INAF-Osservatorio Astrofisico di Arcetri – DD n. 79/2014”**.

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

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

The following documents have to be submitted:

- Annex 1 “Application form”;
- Annex 2 “Curriculum vitae”, signed and dated by the applicant, providing evidence of possession of the titles and the skills required to carry out the research in subject and including a list, if applicable, of grants and fellowships held in the past and a statement of research interests;
- copy of a valid identity document (ID card or passport);
- list of publications;
- any other qualification, working task, research activity for public and private institutions and publications that the applicant deems appropriate to submit.

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

- submission of the application after the deadline;
- failure to complete and sign the application form;
- failure to sign the curriculum vitae
- lack of the copy of a valid identity document;
- lack of the requirements indicated in paragraph 2.

Should the reasons for exclusion be ascertained 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 takes no responsibility for lost applications or documents where this is due to the applicant having provided incorrect contact details or having failed or delayed in notifying any changes to these details.

#### **Art. 4 – Ineligibility and incompatibility with other funding**

Full professors, associate professors and “ricercatori” in Italian universities and employees of Italian research public institutions are all excluded from entering the competition.

The grant cannot be held at the same time with attendance at academic courses as those that formally give access to a doctorate, as well as with attendance at PhD courses with fellowship.

The grant 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.

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 grant, 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-Osservatorio Astrofisico di Arcetri.

Retired persons are not eligible for Research fellowship.

Also excluded from participation are any person who has carried out Research fellowships under article 22 of Italian Law 240/2010 for a total period exceeding four years, including extensions, but excluding the periods in which the grant has been held in coincidence with doctoral studies up to the maximum legal time limit of the course and excluding periods of maternity leave or sick leave, in accordance with current legislation.

#### **Art. 5 – Duration of the Research fellowship**

The Research fellowship is expected to begin before March 1<sup>st</sup> 2015 and will have the duration of 1 year. The exact initial date could be reasonably delayed if requested by the completion of administrative procedures and/or for the cases mentioned in the art. 10 of this call. A reasonable delay can also be negotiated with the scientific advisers, Dr. Filippo Mannucci and Dr. Stefano Zibetti (“the scientific advisers” hereafter) on request by the awarded fellow and must be approved by the director of INAF-Osservatorio Astrofisico di Arcetri. An extension of 1 year may be possible depending on favourable opinion of the scientific advisers and on funding availability.

In accordance with Italian Law n. 240/2011 the duration of the fellowship, inclusive of possible renewal, will not exceed four years, excluding periods of maternity leave or sick leave, in accordance with current legislation.

#### **Art. 6 – Host Institution**

The fellow will carry out the research at INAF-Osservatorio Astrofisico di Arcetri.

#### **Art. 7 – Salary amount**

The gross annual salary will be **28000** Euro. This amount is net of burdens to be charged to INAF-Osservatorio Astrofisico di Arcetri, social charges and health coverage and will be paid in deferred monthly instalments.

Italian fiscal and social security rules will be applied.

The fellow will be requested to have a personal accidents insurance for the duration of the fellowship.

During the period of obligatory maternity leave the allowance paid by INPS (Italian National Institute for Social Security) is supplemented by INAF up to the total amount of the grant. The period of obligatory maternity leave will not contribute to the duration of the grant 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-Osservatorio Astrofisico di Arcetri and is composed of 3 members.

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 qualifications and documented experience in scientific or technological activities on the specific subject of the research fellowship. Applicants selected for the interview will be summoned with 15 days notice by e-mail with acknowledgement of receipt, containing the individual score for qualifications.

The total ranking score is 100 points, of which 70 points is the maximum score for qualifications and 30 points is the maximum score for the interview.

At the end of the selection procedure the Selection Committee will draw up the ranked list.

The approval decree of the selection procedure and the ranked list will be published on the following website: <http://www.arcetri.inaf.it>.

#### **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 she/he must provide a formal declaration of acceptance of the research grant. The declaration will also state that she/he 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, she/he will surrender his/her entitlement to the research fellowship and it can be awarded to the next ranked candidate.

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 – Fellowship obligations**

The holder of the fellowship:

- will start the research activity at the date due as for the contract at INAF- Osservatorio Astrofisico di Arcetri, unless prevented by force majeure or exceptional circumstances, of which the Director of INAF- Osservatorio Astrofisico di Arcetri must be timely informed;
- will carry out her/his research activities under the supervision of the scientific advisers, who will also monitor the fellow's progress;
- is required to issue an activity report when requested by the director and in any case at the end of the first year. The activity report(s) will be subject to approval from the scientists in charge of the project and will be transmitted to the Director of INAF-Osservatorio Astrofisico di Arcetri. Approval failing, duly reasoned by the scientist in charge, will give INAF-Osservatorio Astrofisico di Arcetri the right to terminate the contract;
- is required to send a written note in case of withdrawal, with at least 30 days notice, otherwise the INAF- Osservatorio Astrofisico di Arcetri is entitled to retain or request the

reimbursement of the salary amount corresponding to the notice time-span she/he has failed to send.

The holder of the fellowship who does not carry out her/his research activity regularly without producing justified reasons or lacks repeatedly to fulfil requirements or, according to the evaluation of the scientific advisers, eventually shows evident lack of skills at the planned research activities, will incur the termination of the contract.

Temporary suspensions of the research fellowship are due in case of obligatory maternity leave or in case of illness that lasts 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- Osservatorio Astrofisico di Arcetri.

**Art. 11 – Proceeding Responsible**

The Responsible of this Call proceedings is Drs. Serena Donati (email: [donati@arcetri.inaf.it](mailto:donati@arcetri.inaf.it)).

**Art. 12 – Applicable regulation**

The INAF- Osservatorio Astrofisico di Arcetri 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, the INAF- Osservatorio Astrofisico di Arcetri shall act in compliance with the regulations in force concerning Italian public selection procedures, when applicable by analogy.

Firenze, October 24<sup>th</sup> 2014

*[ The Director ]*  
Dr. Filippo Mannucci

ANNEX 1  
APPLICATION FORM

To  
the Director of INAF-.....

I, THE UNDERSIGNED,

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

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

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 **DD n. 79/2014** for the appointment of one research fellowship entitled: **“Galaxy stellar populations across the cosmic time: perspectives with latest generation instruments and surveys”**.

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.....;
- that I have a professional level of knowledge of 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 of<sup>1</sup>:
  - 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 contemporarily with attendance at academic courses, “laurea specialistica” academic courses, and “laurea magistrale” academic courses, as well as with attendance at 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 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:

- Attachment 2 “Curriculum vitae”, **signed and dated** by the applicant, providing evidence of possession of the skills required to carry out the research and including a list, if applicable of grants and fellowships hold in the past;
- copy of a valid identity document (ID card or passport);
- list of publications;
- any other qualification, working task, research activity at public and private institutions and publications that the applicant deems appropriate to submit;
- copy of the Degree which would formally entitle to embark on a doctorate, in case this is released by a foreign institution;
- copy of the PhD certificate or of the equivalent foreign academic qualification, in case this is released by a foreign institution.

Date

Signature

\_\_\_\_\_

\_\_\_\_\_

<sup>1</sup> Indicate the number of months for which the award was used and the name of the institution granting the award, e.g. INAF-Observatory of Turin, 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.



ANNEX 2  
CURRICULUM VITAE

I, THE UNDERSIGNED,

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

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

THAT THE CONTENT OF THE ATTACHED "CURRICULUM VITAE" IS TRUE

Date

\_\_\_\_\_

Signature

\_\_\_\_\_