



**ISTITUTO NAZIONALE DI ASTROFISICA
OSSERVATORIO ASTROFISICO DI ARCETRI**

L.GO E. FERMI, 5, 50125 – FIRENZE
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**Decreto n. 115
Anno 2017**

Selection procedure based on qualification and possible interview for the awarding of one research fellowship entitled: “Preparing for SKA HI studies of galaxy evolution with multi-wavelength data sets”, Category: A/Post-Doc (in accordance with Article 22, Law 240/2010) CUP C52F14000410001

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 financing from fund Fu.Ob. 1.05.01.88.04, CUP C52F14000410001, chapter 1.01.01.01.009 of the INAF OAA PRIN-SKA budget;

Art. 1 – Research project

A selection based on qualifications, possibly integrated with an interview, is open to award one research fellowship, in the framework of the project “Empowering SKA as a probe of galaxy evolution with HI”. The fellowship is entitled “**Preparing for SKA HI studies of galaxy evolution with multi-wavelength data sets**”, category A/Post-Doc.

In order to quantify the effects of dust and gas on galaxy evolution, the fellow will lead the effort to compile multi-wavelength datasets from the project archives and from the literature for local galaxies and high-redshift galaxy populations. After assessing selection effects for the various samples, the fellow will be responsible for the derivation of scaling relations of fundamental galaxy parameters in order to deduce the influence of atomic gas on evolutionary trends. Work will be carried out in the context of a large national collaboration with access to vast proprietary datasets.

The position is based in the Arcetri Astrophysical Observatory (Florence – ITALY) with the possibility of frequent travel within Italy to other members of the consortium, and abroad for collaborations with the APERTIF project in Dwingeloo, the Netherlands.



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The activity will be carried out under the supervision of Dr. Leslie Hunt (email: hunt@arcetri.inaf.it).

Art. 2 – Requirements

In order to participate in the selection, **under penalty of exclusion, applicants must possess** at the time of the deadline for application of the present position:

- PhD degree in Physics, Astronomy, or Natural Sciences awarded by an Italian university or by a foreign university,

Or alternatively

- Degree in Physics, Astronomy, Natural Sciences, Mathematics, Informatics or equivalent, 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 documented experience after the degree in the field of astronomy or astrophysics.

The following knowledge, skills and experience will be considered as **preferential qualifications**: expertise in the field of galaxy formation and evolution, in particular for dwarf galaxies; previous experience with theoretical and/or observational treatments of scaling relations for galaxy populations; expertise in statistical analyses and multi-wavelength observations, in particular with radio observations and their interpretation.

Art. 3 – Application procedure

Applications must be submitted in English via e-mail to the following email address: inafoarcetri@pcert.postecert.it. If the applicant has a PEC account, there will be an automatic acknowledgement of receipt; if not, then the applicant should ensure by other means that the email has been received. The application must include in the email subject “Application for Postdoc position PRIN-SKA ESKAPE-HI”.

Applications must be submitted by midnight (24:00 CET) January 31, 2018. Late submissions will not be considered.

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

In the absence of any of the above declarations, the applicant will be excluded from the selection procedure.

For the purpose of this selection procedure,



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- applicants must directly state any academic qualifications in the application form (Annex 1)
- if successful, candidates with non-Italian academic qualifications (for example, applicants residing outside Italy or Italian citizens with degrees obtained outside Italy) must produce originals or suitably certified copies of these qualifications. Such documents must be **translated into English**.

Applications must include the following documents:

- Annex 1 “Application Form” **signed and dated** by the applicant;
- Annex 2 **signed and dated** by the applicant;
- copy of a valid identity document (ID card or passport);
- Curriculum vitae providing evidence of possession of the requirements and the skills required to carry out the research and including a list, if applicable, of grants and fellowships held in the past;
- list of publications;
- any other qualification, working task, research activity for public and private institutions and publications that the applicant deems appropriate to submit;
- a description of previous main research achievements and of how the candidate plans to contribute to the PRIN-SKA project (maximum one A4 page);
- a maximum of three reference letters, to be sent directly by the referees to the address inafoarcetri@pcert.postecert.it by midnight (24:00 CET) January 30, 2018. Letters received after this deadline will not be considered;

Applications that are not consistent with the attached forms (Annexes 1 and 2) or have not been signed by the applicant will be excluded from the selection procedure.

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;
- incomplete and/or unsigned application forms (Annexes 1 and 2);
- lack of the copy of a valid identity document;
- lack of the requirements indicated in article 2 of this Call.

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; applicants providing any false statement or document will also be prevented from participation.

INAF accepts 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

The grant cannot be held by full professors, associate professors or research staff in Italian universities or by employees of Italian research public institutions.



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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 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 allowed. 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 this Research fellowship.

Applicants who have held Research fellowships under article 22 of Italian Law 240/2010 for a total period exceeding six years, including extensions, are excluded from the selection. The six years exclude periods in which the grant has been held in coincidence with doctoral studies up to the maximum legal time limit of the Ph.D. program, and excluding periods of maternity leave or sick leave, in accordance with current legislation.

Upon formally accepting the grant, the successful applicant will issue a declaration that none of the above exclusions apply.

Art. 5 – Duration of the Research fellowship

The Research fellowship is expected to begin as soon as possible (but not later than March 2018) and has a duration of **two years**. In any case, 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.

Extensions may be possible depending on performance and funding availability.

In accordance with Italian Law n. 240/2010 the duration of the fellowship, inclusive of possible renewal, will not exceed six 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 - Largo Enrico Fermi, 5 – 50125 Firenze (Italy).

Art. 7 – Salary amount

The gross annual salary will be **28 000 Euro** (twenty-eight thousand/00). 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 installments. The fellow will be requested to acquire a personal accidents insurance for the duration of the fellowship.

Italian fiscal and social security rules will be applied.

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.



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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 composed of 3 members. The selection is based on qualifications possibly integrated by an interview that will be conducted telematically. 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 activities on the specific subject of the research fellowship. Applicants selected for the interview will be summoned with 15 days of notice, 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.astro.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 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 Dr. Leslie Hunt (hereinafter *the supervisor*) who will monitor the fellow's progress.
- is required to issue an activity report every 12 months. The activity reports will be subject to approval from the scientist in charge of the project and will be transmitted to the Director of INAF-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.



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The holder of the fellowship who does not carry out her/his research activity regularly without producing justified reasons or lacks repeatedly to fulfill requirements or, according to the evaluation of *the supervisor*, 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 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-Osservatorio Astrofisico di Arcetri.

Art. 11 – 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, 18 December 2017

Dr. Filippo Mannucci