

Decreto n. 43/2014

Selection procedure based on qualification and possible interview for the awarding of one research fellowship entitled: "High-angular resolution observations of complex organic molecules in star-forming regions", Category: A/Post-Doc (in accordance with Article 22, Law 240/2010) CUP C52I13000140001

#### 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 form fund CRAM iALMA. CUP

C52I13000140001;

#### **DECREES**

#### Art. 1 – Research project

A selection based on titles and qualifications is open to award one research fellowship, funded under the Premiale 2013 project "Science and Technology in Italy for the upgraded ALMA Observatory- iALMA" (hereafter referred to as "iALMA")

The fellowship is entitled "High-angular resolution observations of complex organic molecules in star-forming regions", category A/Post-Doc.

Within the iALMA project, the awarded fellow is expected to carry out the following activities:

- Planning and execution of high-angular resolution observations of complex molecules in star-forming regions (of low- and high-mass and from pre-stellar cores to planetary systems) utilizing single-dish antennas, such as IRAM 30-m, and interferometers, such as ALMA, IRAM PdBI, SMA and VLA.
- Analysis and interpretation of PdBI and ALMA observations using the GILDAS and CASA data reduction tools, and the available spectroscopic catalogues (JPL, CDMS, NIST).
- Discussion and preparation of projects to be carried out with Band 2, which should be implemented in ALMA in the near future

The successful applicants will perform research under the supervision of Dr. Maria Teresa Beltrán, in collaboration with the other members of the iALMA research team. Frequent travel is foreseen to calibrate new data and become familiar with line survey analysis and chemical models.



## **Art. 2 – Requirements**

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

• PhD degree in Astronomy or Physics awarded by an Italian or by a foreign University;

A good knowledge of the English language is required.

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

- Research experience in (sub-)millimeter astronomy and interferometric observations
- Knowledge of galactic star formation and chemistry of the interstellar medium
- Independent and collaborative research skills.

## **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: <u>no</u> ordinary e-mail) to the following PEC address: <u>inafoaarcetri@pcert.postecert.it.</u>

Applications are to be submitted by and not after August 20th, 2014. Late submissions will not be considered.

Applications which 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 in the e-mail subject "Application for iALMA Postdoctoral Fellowhip position at INAF-Arcetri".

The application must be delivered reporting on the envelope or the PEC (Posta Elettronica Certificata) subject "Application for iALMA Postdoctoral Fellowhip position at INAF-Arcetri – DD. n.43/2014.

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);



• 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
- short research plan (maximum 1 page);
- 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.

Applicant should also arrange for two signed letters of reference by persons familiar with her/his work who shall send them directly and within the deadline by e-mail with acknowledgement of receipt to the following address: <a href="mailto:mbeltran@arcetri.astro.it">mbeltran@arcetri.astro.it</a> It is also recommended to send an email to the same address to notify the submission of the application.

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 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

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 INAF 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 as soon as possible but not later than December 2014, for a period of 24 months, with a possible extension depending on performance and 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

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.

#### **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 30.000,00 (Thirty thousand/00) Euro. This amount is net of burdens to be charged to INAF-Arcetri, social charges and will be paid in deferred monthly instalments. The fellowship will not entail medical insurance, the fellow will be requested to have 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.

#### Art. 8 – Selection Committee and selection procedure

The selection, based on qualifications, will be performed by a Selection Committee appointed by the Director of INAF-Osservatorio Astrofisico di Arcetri and is composed of three members, including the researcher in charge of the scientific part of the iALMA project, Dr. Maria Teresa Beltrán.

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 activities on the specific subject of the research fellowship. All the stages of the selection procedure (e.g. meetings of the Selection Committee, interviews and so on) can be performed also using electronic devices for the communications. 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.astro.it



## Art. 9 – Awarding of the fellowship

The highest ranked candidate will receive written notification of award of the research fellowship, which will be anticipated by e-mail to assure a rapid process.

Within 20 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.

The declaration can be anticipated by electronic mail.

If the candidate does not provide declaration of acceptance within a time limit of 20 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 INAF scientist in charge of the Science Working Group of the iALMA project, Dr. Maria Teresa Beltrán, who will also monitor the fellow's progress;
- is required to issue an activity reports when requested by the director and in any case at the end of the first year. 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-Arcetri. Approval failing, duly reasoned by the scientist in charge, will give INAF-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 INAF-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 local coordinator of the iALMA scientific activities, Dr. Maria Teresa Beltrán, 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 which 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- Arcetri.

## **Art. 11 – Proceeding Responsible**

The Responsible of this Call proceedings is Dr. Serena Donati (email: donati@arcetri.astro.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.

The present call will also be published, according with art. 8 of INAF rules and regulations on "Assegni di Ricerca", on the INAF- Osservatorio Astrofisico di Arcetri website http://www.arcetri.astro.it/opportunita-di-lavoro and on the INAF website: http://www.inaf.it

Firenze, June 20th 2014

Dr. Filippo Mannucci



# ANNEX 1: APPLICATION FORM (to be signed and sent as PDF file to the address provided below)

To: INAF - Osservatorio Astrofisico di Arcetri Largo E. Fermi 5 50125 Firenze Italy

			I, THE U	NDERSIGNE	ZD,	
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			I, THE U	NDERSIGNE	ZD,	
having	g read the Ca	.ll for ap	oplications D.	D 43/2014 fo	or the appointment	of one research
fellow	ship entitled: "	High-ang	ular resolution	observations	of complex organic r	nolecules in star-
formir	ng regions".					
			R	EQUEST		
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	awarded by date			Title	of thesis	
	that	I	hold	the	following	educational
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	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 h that I	nave never re have previo	eceived a research award	as per art. 22, Italian Law 240 awards as per art. 22, Italia of 1:			
	•	a	research	fellowship	entitled		
	•	at (name of beginning. a	research the institution)	total months fellowship	entitled		
0	<ul> <li>beginning</li></ul>						
_	Addres	carried out wish to rec as and that I vess (number/s	continuously. ceive any communication will give due notice of an street/town/postal code/C	Country):	at the following		
<ul> <li>To be attached to this form:</li> <li>Attachment 2 "Curriculum vitae", signed and dated by the applicant, providing evior 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;</li> <li>short research plan (maximum 1 page);</li> <li>copy of a valid identity document (ID card or passport);</li> <li>list of publications;</li> <li>any other qualification, working task, research activity at public and private institution and publications that the applicant deems appropriate to submit;</li> <li>copy of the PhD certificate or of the equivalent foreign academic qualification.</li> </ul>							
		Date		Signature			

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 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 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
	_	