Selection procedure based on qualification and possible interview for the awarding of one research fellowship entitled: "Support software for the GLORIA project data handling."
Category: POST-DOC

Bando Prot.n. 00013/U/2013 del 11/01/2013   **Tit. III Classe 03**

THE DIRECTOR

Taking into account	the "Decreto Legislativo 4 giugno 2003, n. 138 - Riordino dell'Istituto nazionale di astrofisica (INAF)" published on Gazzetta Ufficiale n.140, June 19th, 2003;
Taking into account	the Statute of the Istituto Nazionale di Astrofisica (INAF), adopted by INAF on March 7th, 2011, and entered into force on May 1st, 2011;
Taking into account	the "Disciplinare di Organizzazione e Funzionamento" approved by INAF Administrative Council on June 21nd, 2012, Resolution n. 44/2012 and entered into force on July 21th, 2012;
Taking into account	the "Regolamento sull'amministrazione, sulla contabilità e sull'attività contrattuale" of INAF entered into force on Oct 24th, 2004;
Taking into account	the "Regolamento del Personale" of INAF entered into force on Jan 1st, 2005;
Taking into account	Italian Law n. 240, Dec 30th, 2010;
Taking into account	the INAF Regulations for the awarding of research fellowships approved by INAF Administrative Council on June 22nd, 2011, Resolution n. 06/11 and subsequent modifications and integrations;
In accordance with	the Grant Agreement n. 283783 for the implementation of the project "GLORIA – GLObal Robotic telescopes Intelligent Array for e-Science"
In accordance with	the request for a call offering one research fellowship, submitted by the scientific responsible of the project "GLORIA" Dr. Luciano Nicastro, prot. n.00529/I/2012, December 12th, 2012;
Considering	it appropriate to issue an announcement of competition for the award of a research fellowship;
Given	the availability of finance from fund FP7 Grant Agreement n. 283783, CRA 2.05.48, "GLORIA – GLObal Robotic telescopes Intelligent Array for e-Science", of the 2013 INAF budget;

DECREES

ISTITUTO DI ASTROFISICA SPAZIALE E FISICA COSMICA – BOLOGNA
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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", category POST-DOC, entitled "Support software for the GLORIA project data handling".

GLORIA (GLObal Robotic telescopes Intelligent Array for e-science) is a project funded by the European Commission under the 7th Framework Programme. It involves 13 Institutions from 8 countries. GLORIA is an innovative citizen-science network of robotic telescopes, which will give free access and research opportunities to a virtual community via the Internet. The GLORIA partners will offer access to a growing collection of robotic telescopes via Web 2.0 - 17 telescopes on 4 continents by the end of 2014. The aims of the project also include the realization of open standards and methodologies to perform observations, management and analysis of live and archival astronomical data. Among the challenges that the project has to face there is the efficient access by the users to the very large (and continuously growing) archive of images that the heterogeneous set of GLORIA telescopes will collect.

The awarded fellow will carry out the following activities:
- Development of Web based rich Internet applications aimed at browsing astronomical data collected by optical and IR telescopes;
- Development of astronomical images management tools for distributed relational or NoSQL databases;
- Development of methodologies and tools aimed at accessing very large astronomical catalogues and data archives;
- Improving the capabilities of existing open source software libraries and contributing to their documentation.

Art. 2 – Requirements

Applicants must fulfill the following requirements, on pain of exclusion, in order to participate in the selection:
- 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 documented experience in scientific or technological activities;

And
- A professional level of knowledge of the English language;
- Good programming skills in at least two of the following languages: C, C++, PHP, Perl, Python, JavaScript;
- Good knowledge of the relational database principles;
- Good knowledge of the Linux operative system.

Preferential qualification will be considered the PhD degree and one or more of the following expertise:
- Object programming;
- JavaScript programming;
- UDF programming and management of relational and NoSQL databases;
- Web 2.0 programming;
- Web interface programming via RIA and within the LAMP environment.

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Art. 3 – Application procedure

Applications must be submitted in English, by **February 4th 2013**, by registered mail with acknowledgement of receipt or express courier to the following address "**INAF/IASF-Bologna, Via P. Gobetti 101, 40129 Bologna (BO) - Italy**", or e-mail to "**direzione@iasfbo.inaf.it**".

Only applications submitted by the above mentioned date will be accepted. 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 on the envelope, or email subject, "**Assegno di Ricerca GLORIA**".

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.

The following documents have to be submitted:
- Application form (*Attachment 1*);
- 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; Degree mark should be reported too;
- copy of a valid identity document (ID card or passport);
- copy of the Degree which would formally entitle to embark on a doctorate;
- copy of the PhD certificate or of the equivalent foreign academic qualification (if applicable);
- list of publications;
- any document demonstrating other qualification, working task, research activity at public and private institutions and publications that the applicant deems appropriate to submit (copies are acceptable).

The documents that are required to be provided (or submitted) in copy, shall have in attachment the **declaration of equivalence to the original**, foreseen by the Italian law, written using the form in *Attachment 2*.

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 or electronic delivery not due to INAF.

Art. 4 – Ineligibility and incompatibility with other funding

The Research fellowship cannot be held 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.
The grant cannot be held contemporarily with attendance at academic courses, "laurea specialistica" academic courses, and "laurea magistrale" academic courses, or with attendance at PhD courses with fellowship. For employees of the Italian Public Administration compulsory unpaid leave of absence is foreseen.

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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/IASF-Bologna where most part of the research activity of the grant is carried out.

When formally accepting the grant, the successful candidate will issue a declaration of absence of inadmissible cumulating of grants/fellowships.
Retired persons are not eligible for Research fellowship.
Also excluded from participation are persons who have carried out Research fellowships under article 22 of Italian Law n. 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 for **12 months** (with possible extension depending on favorable opinion of the scientist in charge of the project, Dr. Luciano Nicastro, and on funding availability).
In accordance with Italian Law n. 240/2010 the duration of the fellowship, inclusive of possible renewal, will not exceed four years, (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. 6 – Host Institution

The fellow will carry out the research at INAF/IASF-Bologna.

Art. 7 – Salary amount

The gross annual salary will be **30,000.00** (Thirtythousand/00) Euro. This amount is net of burdens to be charged to INAF/IASF-Bologna, social charges and health coverage 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 grant. The period of obligatory maternity leave will not contribute to the duration of the grant foreseen by the contract.

The INAF/IASF-Bologna provides accidents and civil liability insurance cover from fund CRA 2.05.48 "GLORIA – GLObal Robotic telescopes Intelligent Array for e-Science".

Art. 8 – Selection Committee and selection procedure

The selection will be performed by a Selection Committee appointed by the Director of INAF/IASF-Bologna and is composed of three members, including the scientist in charge of the project.
The selection is based on Degree mark, titles and qualifications, possibly integrated by an interview.

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The Selection Committee can establish a short list of the eligible applicants to be interviewed, even using Internet tools, on the basis of titles and qualifications as well as documented experience in the scientific or technological activities on the specific subject of the research fellowship.

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. The Selection Committee will define a minimum score for selecting eligible candidates.

At the conclusion of the selection procedure the Selection Committee will draw up the ranked list of the eligible candidates.

The approval decree of the selection procedure and the ranked list will be published on INAF/IASF-Bologna web site: "http://www.iasfbo.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 it occurs, the awarded candidate is bound to provide formal declaration of withdrawal within the same time limit of 10 days.

Under no circumstances the signing of the contract starts a subordinate employment relationship or ensures any rights to access to permanent INAF staff positions.

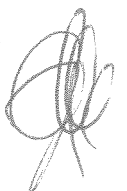## Art. 10 – Starting date and fellowship obligations

Expected starting date of the research fellowship is **March 2013**.

The holder of the fellowship:

- will start the research activity at the date due as for the contract at INAF/IASF-Bologna, unless prevented by force majeure or exceptional circumstances, of which the Director of INAF/IASF-Bologna must be timely informed;
- will carry out her/his research activities under the supervision of the scientist in charge of the project, Dr. Luciano Nicastro, who will also monitor the fellow's progress;
- is required to issue periodical activity reports: at least one report per 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/IASF-Bologna. Approval failing, duly reasoned by the scientist in charge, will give INAF/IASF-Bologna 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/IASF-Bologna 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 fulfill requirements or, according to the evaluation of the scientist in charge of the project, 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/IASF-Bologna.

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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 the art. 7 of the above mentioned Legislative Decree, may contact the Responsible for the administration of this call.

Art. 12 – Administration Responsible

The Responsible for the administration of this Call procedure is Dr. Giorgia Angelini (angelini@iasfbo.inaf.it).
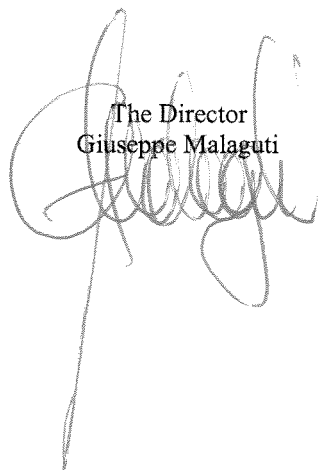
Art. 13 – Applicable regulation

The INAF/IASF-Bologna 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/IASF-Bologna shall act in compliance with the regulations in force concerning Italian public selection procedures, when applicable by analogy.

Bologna, January 11, 2013

The Director
Giuseppe Malaguti

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ATTACHMENT 1

APPLICATION FORM

To
the Director of INAF/IASF-Bologna
Via P. Gobetti 101
40129 Bologna (I)

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 "Assegno di Ricerca – GLORIA" for the appointment of one research fellowship entitled: "Support software for the GLORIA project data handling".

REQUEST

to apply for the above mentioned fellowship, and to this end, 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,

DECLARE

under my own responsibility and in accordance with articles 46 and 47 of Italian Presidential Decree 445/2000:

- that I hold the following Research Doctorate (PhD)
  ....,
  awarded by.., 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;

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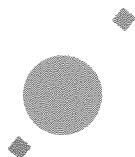
- that I am aware of the restrictions described in Article 4, of the Call for applications for this research fellowship;

- 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[1]:

    1. a research fellowship entitled..., at (name of the institution)..., beginning.................................ending.......................total months.............................
    2. a research fellowship entitled..., at (name of the institution)..., beginning.................................ending.......................total months.............................
    3. a research fellowship entitled..., 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 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: ....

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[1] Indicate the number of months for which the award was used and the name of the institution granting the award, e.g. INAF/IASF - Bologna, 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.

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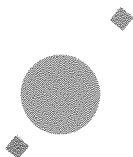
To be attached to this form:

- 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;

- copy of the PhD certificate or of the equivalent foreign academic qualification (if applicable).

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

_____

_____

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ATTACHMENT 2

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 COPY OF THE DOCUMENTS:

1. ....

2. ....

3. ....

4. ....

5. ....

6. ....

7. ....

8. ....

ARE COMPLIANT TO THE ORIGINALS.

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

_____   _____

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