SUMMARY OUTLINE OF THE NOTICE OF COMPETITION

Subject:

Public selection procedure, based on qualifications and possible interview, for the awarding of a post-doc research fellowship, lasting two years, for the needs of the project “On the nature of ultra-diffuse galaxies in the Hydra I cluster with MUSE: data reduction and analysis of the LEWIS data”.

Art.1: Description of the research activity to be carried out

The activity will be carried out in the framework of the LEWIS (Looking into the faintest with MUSE) project. In particular, the selected candidate will work on the data reduction and analysis of the integral-field spectroscopy for a complete sample of ultra-diffuse galaxies (UDGs) in the Hydra I cluster of galaxies, acquired with MUSE@ESO-VLT. Data are from an ESO large program, approved in P108 and lasting over three ESO periods. Once the MUSE cubes are fully reduced and stacked, included the ad-hoc sky subtraction, the stellar kinematics need to be derived for each UDG of the sample. The main outcomes of this project is a notable boost to our knowledge of the UDG structure and formation. In particular, with the proposed fellowship, we expect to constrain DM content in each UDG of the sample through dynamical mass measurements from resolved stellar kinematics.

The scientific referent of the research fellowship is Dr. Enrichetta Iodice.

Art.2: Admission requirements

In order to be admitted to the selection procedure governed by this call, the possession of one of the following qualifications is required:

- PhD in Astronomy or Astrophysics or equivalent, issued by a Higher Institute or University (including foreign);
- Master degree (or 2nd level Laurea degree, if issued by an Italian University) in Astronomy or Astrophysics or equivalent qualification, issued by a Higher Institute or University (including foreign), together with at least three years of documented experience in scientific activities or technological after graduation. The equivalence will be established by the selection board according to criteria defined for the purposes of the selection procedure.

A good knowledge of the English language is required.

The following skills and experiences will be considered preferential requirements:

- Expertise in data reduction and analysis of integral-field spectroscopic data, in particular acquired with MUSE@ESO-VLT
- Knowledge about structure of galaxies, in particular dwarfs and UDGs
- Methods and tools to estimate the redshift of galaxies and derive the stellar kinematics
- Programming skills (Python)
Art. 3: Submission

Applications must be submitted in one of the following ways:

- by certified e-mail, including all required documents in PDF inafoanapoli@pcert.postecert.it. Only e-mail PEC from one of the operators indicated in the list of the AgID Digital Italy Agency pursuant to Presidential Decree No. 68 of 11/02/2005 is considered valid; attachments must be in PDF format. Subject must be: “Assegno di Ricerca - Looking into the faintEst WIth muSe (LEWIS): on the nature of ultra-diffuse galaxies in the Hydra-I cluster”
- by regular electronic mail (e-mail) to concorsi@oacn.inaf.it; attachments must be in PDF format. Subject must be: “Assegno di Ricerca - Looking into the faintEst WIth muSe (LEWIS): on the nature of ultra-diffuse galaxies in the Hydra-I cluster”
- registered mail with return receipt to the National Institute of Astrophysics - Osservatorio Astronomico di Capodimonte – Via Moiariello, 16 – 80131 Napoli;
- authorised express courier to INAF - Osservatorio Astronomico di Capodimonte – Via Moiariello, 16 – 80131 Napoli.

Applications must be received no later than November 30, 2022 - 23:59 CET (not postmarked). Late applications will not be considered.

The applicants might also arrange a maximum of two reference letters, to be sent directly by the referees to the address: enrichetta.iodice@inaf.it by November 30, 2022, reporting in the subject the indication of the related procedure (LEWIS post-doc fellowship) and the name of the candidate. Letters received after this deadline will not be considered.

Aware that false declarations against the law are punishable for and that the Administration can proceed to verify the veracity of the declarations made, the candidate must clearly and precisely declare:

- name and surname, date and place of birth, nationality, residence and address for sending correspondence,
- to possess all the requisites described in Art. 2 of this announcement;

Furthermore, the candidate, under his own responsibility, must declare in the application:

- that he/she has not received criminal convictions or have criminal proceedings in progress, specifying, if not, which convictions or proceedings exist;
- whether he/she has benefited or still benefits from other research contracts or fellowship from other public or private institutes and for what duration.

The lack of the declarations mentioned will result in exclusion from the selective procedure for incomplete application.

For the purposes of selection, the candidate can self-certify the possession of academic qualifications through Annex 1. In addition, non-EU citizens residing outside Italy, if successful, must produce originals or suitably certified copies of academic qualifications obtained outside Italy.

To participate, the following documents must be presented:

- Complete Application Form, as provided in the Annex 1 of this announcement;
- Annex 2 - substitutive declaration of certification - substitutive declaration of deed of notoriety (art. 19 - 46 - 47 of Presidential Decree 28 December 2000, n. 445);
- “Curriculum vitae”, signed and dated by the candidate, which also indicates any scholarships and research grants previously or in progress;
- Copy of a valid identity document;
- List of publications;
Any other qualification, work experience, research activity at private public institutions and publications that the candidate deems appropriate to attach;

List of all documents presented.

Candidates are admitted to the selection with reserve and may, at each stage, be notified of their exclusion from the selection for the following reasons:

- the application was submitted after the deadline;
- lack of demand;
- lack of a copy of a valid identity document;
- lack of the requisites indicated in art. 2.

If the reasons for exclusion are ascertained after the conclusion of the selection procedure, the candidate will lose all rights to participate in the selection; similarly, we will proceed if the production of false declarations is ascertained.

INAF declines all responsibility for loss of the application or documentation when this derives from the fact of the applicant for having provided incorrect contact details or for having failed or delayed notification of any changes.

**Art. 4: Duration of the research fellowship**

The duration of the fellowship is one year, renewable if necessary subject to the assessment of the needs of the research program, subject to a reasoned request from the Scientific Responsible and, in any case, within the limits provided for in article 22, paragraph 3, of Law 240/2010 and subsequent amendments and subsequent amendments and additions. The financial coverage of the position is currently granted for two years.

**Art. 5: Location of the research grant**

The location of the study and research activity will be the Astronomical Observatory of Capodimonte. The candidate will be able to participate in a transfer abroad.

**Art. 6: Amount of the research grant**

The gross annual amount of the research grant is € 28,000.00; this amount is to be understood net of the charges to be borne by the Astronomical Observatory of Capodimonte and will be paid in deferred monthly instalments. The selected candidate will have to provide at his own expense to take out an accident insurance policy that he will have to show when the report is formalised.

Napoli, October 24 2022

Il Direttore
Dott.ssa. Marcella Marconi
ANNEX I
APPLICATION SAMPLE

To the Director of the Astronomical Observatory of Capodimonte
Via Moiariello 16
80131 Napoli (NA)

The undersigned ............................................ (married candidates must indicate their maiden name),
born in ......................... ........., prov. ……………., on ………………………, and resident in ...............,
prov. …................., In Via / Piazza ........................., N ° ……, C.A.P. ………….

appli es

to be admitted to participate in the selection procedure based on qualifications and interview, for the
awarding of an annual research grant for the project entitled "Looking into the faintEst WIth muSe
(LEWIS): on the nature of ultra-diffuse galaxies in the Hydra-I cluster", announced with
Directorial Determination no. ___ of the___.

To this end, under one's own responsibility and aware that the declarations made and signed in this
application have the value of a substitutive declaration of certification and/or deed of notoriety pursuant to
art. 46 and 47 of Presidential Decree no. 445/2000 and that in the case of falsification of documents or false
declarations, the sanctions provided for by art. 76 of the aforementioned Presidential Decree,
declares

1. to be an Italian citizen or to be a citizen of the following State ………………………… ..;
2. to benefit from civil and political rights and to be registered in the electoral roll of the municipality
of …………………. or not to be registered on the electoral roll or to have been canceled from the
electoral roll for the following reasons: ……………………………………. (1);
3. not to have been convicted of a crime or to have pending criminal proceedings , not to be the
recipient of preventive measures and administrative measures registered in the criminal record; other wise, the reported convictions, the measures applied and the pending criminal proceedings of
which one is aware are specified ……………………………………. (1);
4. to be in possession of the following qualifications ................................... ......................., obtained
from .............................................. . on (dd / mm / yyyy /) ..............................;
5. to be in possession of no. ...... years of documented experience in scientific, technological or
management activities, gained at .................. from ............ as of ................., carrying out the
following activities ..................................... .............;
6. the non-existence of incompatibility causes as indicated in art. 4 of the call for applications and any
dependence on a public administration;
7. not to have been dispensed and or dismissed from another job employed by a public administration
for persistent, insufficient performance;
8. not to have been declared forfeited from another employment employed by a public administration,
pursuant to article 127, paragraph 1, letter d), of the Decree of the President of the Republic of
January 10, 1957, number 3, for having obtained it by producing false documents or documents
vitiated by non-remediable disability or by fraudulent means;
9. not to be the holder of other scholarships, research grants, research contracts awarded for any reason;
10. to be the beneficiary of / scholarships / research grants / research contracts awarded for any reason at
the Entity / University / Institute ………………………………………. from …………………….. with expiry ……………………..
and to undertake to renounce it in case of passing this selective procedure;
11. to have been the beneficiary r of scholarships / research grants / research contracts (delete the type
of non-interest) awarded for any reason at the Body / University / Institute ……………………………………
form the …………………. to the ……………………..;
from the …………………. to the ……………………..;
12. to have adequate knowledge of the English language;
13. (for Italian citizens) to be the owner of the following personal certified e-mail box ..................................
   .. (and for foreigners) to be the owner of the following ordinary e-mail box ............. .......
   to whom to send communications regarding the procedure: and to undertake to communicate any
   changes to the Administration;

14. to have read and understood the rules contained in the selection announcement;

15. to be aware of the fact that, pursuant to art. 22 Italian law 240/2010, the research grant:
   - cannot be combined with participation in specialist degree courses, master's degree courses, as
     well as with participation in research doctorate courses with scholarship;
   - cannot be combined with other scholarships of any kind, except those awarded with the aim of
     integrating the training or research activity of the research fellow through a period spent abroad;
   - cannot allow the accumulation of income from work activities, even part-time, carried out
     continuously.

The undersigned attaches the following documentation:
   1. Curriculum vitae et studiorum dated and signed;
   2. Annex 2 - substitutive declaration of certification or substitutive declaration of deed of
      notoriety (art. 19 - 46 - 47 of Presidential Decree 28 December 2000, n. 445);
   3. Double-sided copy of a valid identity document;
   4. List of publications;
   5. Other qualifications, documents or publications deemed useful for the purposes of the
      evaluation;

The undersigned expresses his her consent so that the personal data provided can be processed, in
compliance with Legislative Decree 30 June 2003 n. 196 as amended by the "Regulation (EU) 2016/679 of
the European Parliament and of the Council of 27 April 2016 concerning the protection of individuals with
regard to the processing of personal data, as well as the free circulation of such data and repealing Directive
95 / 46 / EC "(" General Data Protection Regulation "), for the obligations related to this procedure.

(Place and date).............................................

(Signature)

Note
(1) Otherwise, indicate any criminal convictions, the details of the related verdicts (even in cases where no
mention has been granted in the certificates issued by the criminal record at the request of private individuals
or amnesty, pardon, pardon, forgiveness judicial or rehabilitation), the measures applied and any pending
criminal proceedings.
ANNEX 2

FAC-SIMILE (ONLY FOR EU CITIZENS)

SUBSTITUTE DECLARATIONS OF NOTORY ACT (Art. 47 D.P.R. n. 445/2000)

(check next to the declaration of interest)

The undersigned:

LAST NAME………………………………………………………………………….
(for married women indicate the maiden name)

NAME ……………………………… TAX IDENTIFICATION NUMBER
………………………………

BORN IN ................................................. (PROVINCE ............) ON ..................

RESIDENT IN .................................................. (PROVINCE ......)

ADDRESS …………………………………………………………………… C.A.P. ………… ..

PHONE…………... ……….……………………………………

DECLARES

under his/her own responsibility pursuant to art. 38, 46 and 47 of the Presidential Decree n. 445 of 28/12/2000, aware of the criminal penalties for false hypotheses and false declarations made pursuant to art. 76 of the same Presidential Decree:

1. to be in possession of the following qualification, required as a qualification for admission to the procedure:

_____________________________________________________________________

(In the event that the qualification has not been obtained in Italy and has not been declared equivalent in accordance with current Italian legislation), to have taken the following exams, with any related evaluation and that the legal duration of the course is years ______________________________; 

2. to be in possession of the qualifications and to have the experience / knowledge indicated in the attached curriculum;

not to be the holder of other scholarships, research grants, research contracts awarded for any reason

OR

to have been the beneficiary of study grants / research grants / research contracts awarded for any reason at the Body / University / Institute __________________

1) from________________________ to _____________________
2) from________________________to_____________________

The undersigned also declares to be informed, pursuant to and for the purposes of Legislative Decree 196/2003, that the personal data collected will be processed, even with information technology tools, exclusively as part of the procedure for which this is made.

I enclose an unauthenticated photocopy of a valid identity document.

Place and date ………………..

The declarant