

JOB ANNOUNCEMENT DD 102/2022

The Istituto Nazionale di Astrofisica – Osservatorio Astrofisico di Arcetri (INAF-OAA) is offering 4 two-year post doctoral positions in ***“Evoluzione di galassie e AGN con MOONS, ERIS e JWST”*** – (***“Galaxy and AGN evolution with MOONS, ERIS, and JWST”***).

RESEARCH PROJECTS

- Use of GTO and open-time surveys with NIRSPEC/JWST, VLT/ERIS, and VLT/MOONS to study galaxy metallicity and ISM properties
- Use of GTO and open-time surveys with NIRSPEC/JWST, VLT/ERIS, and VLT/MOONS to study outflows on galaxies at high redshift and AGN feedback
- Use of GTO and open-time surveys with VLT/ERIS, Keck/OSIRIS e LBT/LUCI to study the properties of large sample of dual/lensed AGNs; selections of these samples using Gaia, Euclid and other instruments; comparison of the observational results with models of AGN formation and evolution.

ELIGIBILITY

Each appointment is expected to begin by June 30 2023 and will be for two years in the first instance, and renewable afterwards, subject to funding availability and performance review. The yearly gross salary is 29,000 Euros.

Prospective candidates are encouraged to contact:

- Dr. Giovanni Cresci giovanni.cresci@inaf.it (INAF-OAA).
- Dr. Filippo Mannucci filippo.mannucci@inaf.it (INAF-OAA)

The deadline for sending applications is **January 13, 2023 – 11.59 p.m. (Italian time)**.

REQUIREMENTS

- PhD in Physics or Astronomy or equivalent qualification awarded by public or private Universities, Institutions, Research Organizations or Centers or other qualified research bodies, both in Italy and abroad, in the topics relevant to the scientific and technological area and the research object of this call.

Or alternatively

- Master Degree in Physics or Astronomy or equivalent qualification, together with 3 years of documented experience, awarded by public or private Universities, Institutions, Research Organizations or Centers or other qualified research bodies, both in Italy and abroad, in the topics relevant to the scientific and technological area and the research object of this call.

With the sole scope of admission to this selection procedure, the equivalence of educational qualifications obtained abroad will be verified by the “Selection Committee” as of subsequent Art. 7, on the basis of documentation forwarded by the candidate as foreseen by Art. 3 of this “Call”, provided that, in case the candidate is

the winner of the aforesaid procedure, the Administration will acquire the results of the verification performed by the "Selection Committee" and will forward them together with the documentation listed in Article 3, paragraph 2, letter a) or b) of the Decree n. 189 of the President of the Republic of 30 July 2009, plus the application of the candidate, to the Ministry of University and Research with the scope to acquire the opinion foreseen in Article 4, paragraph 2 of the aforementioned Decree.

PREFERENCIAL QUALIFICATIONS:

- Previous experience with IFU data and galaxy spectroscopy
- Previous research activity of physics of the ISM, and gas and stellar metallicity
- Previous research activity on AGN feedback
- Previous research activity on AGN formation and evolution, including theoretical models
- Experience with programming languages, in particular python

APPLICATION PROCEDURE

Applications must be sent via e-mail to: inafoarcetri@pcert.postecert.it. In the email subject the applicant should make explicit reference to: "**Bando 4 posizioni – Domanda per assegno Post Doc – DD n. 102/2022**".

Applications must include the following Annexes **dated and signed**:

- the Application Form (Annex A);
- the self-certification Form (Annex B);

One or two reference letters are needed. Editors/contacts should address them by the deadline for application to: inafoarcetri@pcert.postecert.it, reporting in the object of the mail: "DD n. 102/2022" and the name of the candidate they are referred to.

The applicant also needs to attach:

- 1) a copy of a valid identification document;
- 2) a curriculum vitae (**dated and signed**);
- 3) **if awarded outside Italy**, copy of academic qualifications and also transcripts in case of Master Degree;
- 4) brief research statement (up to 3 pages) on the previous research activities and possible future developments
- 5) a list of scientific publications;
- 6) any other work or publication the applicant deems useful;
- 7) a list of all submitted documents.

Incomplete or unsigned applications will be rejected.

