

JOB ANNOUNCEMENT DD 101/2022

The Istituto Nazionale di Astrofisica – Osservatorio Astrofisico di Arcetri (INAF-OAA) is offering a two-year post doctoral position in *“Ruolo dei flussi di materia nella formazione stellare e planetaria / (“Role of mass outflows in star and planet formation”)*.

RESEARCH PROJECT

The activity research will concern:

Analysis and interpretation of high angular resolution observations of mass outflows around young stars (atomic jets and molecular winds) in the millimeter and near-infrared wavelength ranges. Data obtained with ALMA in the ALMA-DOT campaign, and/or with the JWST space telescope in the PROJECT-J campaign and/or with VLT and LBT instrumentation will be used. The objective is to elucidate the influence of mass outflows on the process of formation of the system, with particular reference to the dynamics and chemistry of the accretion disk and to the consequences on the planet formation that takes place in it.

ELIGIBILITY

The 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 28,000 Euros.

Prospective candidates are encouraged to contact:

- Dr. Francesca Bacciotti francesca.bacciotti@inaf.it (INAF-OAA).

The deadline for sending applications is **February 15, 2023 – 11.59 p.m. (Italian time)**.

REQUIREMENTS

- PhD in Astronomy or Physics 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 Astronomy or Physics 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:**
Expertise related to the object of the call

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 YODA-OAA – Domanda per assegno Post Dottorato – DD n. 101/2022**”.

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

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

Two reference letters will be appreciated. Editors/contacts should address them by the deadline for application to: inafoarcetri@pcert.postecert.it, reporting in the object of the mail: “DD n. 101/2022” 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) a list of scientific publications;
- 5) any other work or publication the applicant deems useful;
- 6) a list of all submitted documents.

Incomplete or unsigned applications will be rejected.