

JOB ANNOUNCEMENT DETERMINA 241/2023

The Istituto Nazionale di Astrofisica – Osservatorio Astrofisico di Arcetri (INAF-OAA) is offering a two-year post doctoral position in **“Particle escape from their acceleration sites: theory confronts observation”**.

RESEARCH PROJECT

The research activity will concern:

the fellow will work on the escape of accelerated particles from their acceleration sites, the impact they have on the medium in which they propagate and the diagnostics of these effects through high energy astrophysical observations.

ELIGIBILITY

The appointment is expected to begin by **March 2024** 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.

INAF-OAA is an equal opportunity employer committed to diversity.

Prospective candidates are encouraged to contact:

- Dr. Elena AMATO elena.amato@inaf.it (INAF-OAA).

The deadline for sending applications is **November 30, 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 Art. 7 in the Call, on the basis of documentation forwarded by the candidate as foreseen by Art. 3 of the "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:

- energetic particle acceleration and transport,
- numerical simulations of astrophysical plasmas in the MHD regime and withing kinetic theory,
- observations of high energy astrophysical sources

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 Bando PRIN MUR 2022- Domanda per Assegno Progetto Unveiling the footprints of the cosmic ray journey through the Galaxy and beyond- DETERMINA 241/2023**".

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: "DETERMINA n. 241/2023" 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 complete list of relevant publications, dated and signed, which should contain all details: title, journals, years of publication, lists of authors, and web addresses on which they can be viewed.
- 5) any other work or publication the applicant deems useful;
- 6) a list of all submitted documents.

Incomplete or unsigned applications will be rejected.