

## **JOB ANNOUNCEMENT DETERMINA 240/2023**

The Istituto Nazionale di Astrofisica – Osservatorio Astrofisico di Arcetri (INAF-OAA) is offering a post doctoral position in ***"PROMETEUS: Charting metals in extragalactic stellar populations across time and environments"***.

### **RESEARCH PROJECT**

The research fellow will conduct research activities in the context of the project PROMETEUS: PRObing the METallicity Evolution of the Universe with Spectroscopy, with a particular focus on studying the stellar metallicity and chemical abundances in galaxies at different cosmic times and environments. The research can be both observationally-oriented exploiting and interpreting data already or soon-to-be available to our group (e.g. VLT/LEGA-C, WEAVE-StePS, VLT/MOONS-MOONRISE), and theoretically-oriented aimed at developing and validating methods for the measurements of chemical abundances in stellar populations. Supporting experience with galaxy evolution models, particularly related to chemical evolution, will also be of interest.

### **ELIGIBILITY**

The appointment is expected to begin by **May 1<sup>st</sup> 2024** and will be for twenty-two months 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. Anna Rita GALLAZZI [anna.gallazzi@inaf.it](mailto:anna.gallazzi@inaf.it) (INAF-OAA).

The deadline for sending applications is **November 17, 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:**

We are particularly interested in candidates with expertise in one or more of the following:

- Analysis of spectra of extragalactic sources, in particular of the galaxies' stellar component
- Stellar population synthesis models
- Bayesian statistical methods
- SED fitting and spectral fitting codes
- Research on the chemical evolution of galaxies from an observational/interpretative point of view and/or with the aid of chemical evolution models

### **APPLICATION PROCEDURE**

Applications must be sent via e-mail to: [inafoarcetri@pcert.postecert.it](mailto:inafoarcetri@pcert.postecert.it). In the email subject the applicant should make explicit reference to "**Bando PRIN MUR 2022- Domanda per Assegno Progetto PROMETEUS. DETERMINA 240/2023**".

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

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

Up to two reference letters will be appreciated. Editors/contacts should address them by the deadline for application to: [inafoarcetri@pcert.postecert.it](mailto:inafoarcetri@pcert.postecert.it), reporting in the object of the mail: "DETERMINA n. 240/2023" 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) a research statement covering past research, main results and possible future developments,

also in connection with this research project (max 3 pages)

- 4) **if awarded outside Italy**, copy of academic qualifications and also transcripts in case of Master Degree;
- 5) 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.
- 6) any other work or publication the applicant deems useful;
- 7) a list of all submitted documents.

Incomplete or unsigned applications will be rejected.