

## **JOB ANNOUNCEMENT DETERMINA 244/2023**

The Istituto Nazionale di Astrofisica – Osservatorio Astrofisico di Arcetri (INAF-OAA) is offering a two-year post-doctoral position in “***The nucleosynthesis of heavy elements: observational constraints from large spectroscopic surveys, Gaia and future instrumentation***”

### **RESEARCH PROJECT**

The candidate will focus on the following aspects: scientific exploitation of the Gaia-ESO database, of the Large Programme MINCE data and of future observations to be obtained with the WEAVE and 4MOST spectrographs, in combination with astrometric, photometric and kinematic information from the Gaia mission. The activities will be carried out in preparation for the conceptual study for the realisation of the multi-object spectrograph to be proposed at ESO for the VLT telescope, HRMOS

### **ELIGIBILITY**

The appointment is expected to begin by **May 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.

Prospective candidates are encouraged to contact:

- Dr. Laura MAGRINI [laura.magrini@inaf.it](mailto:laura.magrini@inaf.it) (INAF-OAA).

The deadline for sending applications is **November 30, 2023 – 11.59 p.m. (Italian time)**.

### **REQUIREMENTS**

- PhD in Astronomy, Physics, Math, Engineering or Computer Science 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, Physics, Math, Engineering or Computer Science 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:**

- Experience in stellar spectroscopy and spectral analysis
- Experience in construction and interpretation of chemical evolution models
- Experience in stellar nucleosynthesis, in particular of neutron-capture elements
- Expertise in large database analysis
- Knowledge of machine learning techniques
- Computer skills in programming

#### **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 COSMIC POT- post dottorato DETERMINA n. 244/2023"**.

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](mailto:inafoarcetri@pcert.postecert.it), reporting in the object of the mail: "DETERMINA n. 244/2023" 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.