**Job Announcement**

Two-year postdoctoral fellowship at INAF - OAS (Osservatorio di Astrofisica e Scienza dello Spazio di Bologna) on:

*Scientific exploitation of galaxy and AGN IR surveys and creation of simulations as tools to optimise the observing strategies for the future ESA-JAXA mission SPICA.*

**Research Project**

The successful candidate will join the SPICA Italian Team and the extragalactic group in Bologna, and will work on the physical and evolutionary properties of galaxies and AGN to perform feasibility studies of mid- and far-IR surveys with the SPace Infrared telescope for Cosmology and Astrophysics (SPICA). In particular, by using the SPICA instrument simulators, will simulate and devise observing strategies, producing source counts, luminosity functions and redshift distributions for the different galaxy and AGN populations that will be detected by SPICA. Constraints to the simulations will be derived by exploiting the currently available IR survey data obtained by the Herschel, Spitzer and WISE missions.

**Eligibility**

Applicants should have a PhD degree in Physics or Astronomy obtained in the year 2014 or later. Previous experience on the physics, formation and evolution of galaxy and AGN from IR surveys, multi-band source catalogs and simulations, will be an advantage. Good knowledge of English is required.

The appointment is expected to begin between May and July 2019, and will be for two years in the first instance, and renewable afterwards, subject to funding availability and performance review. The net monthly salary is around 2,100 Euros.

Prospective candidates are encouraged to contact Dr. Carlotta Gruppioni (carlotta.gruppioni@inaf.it) for additional information.

The deadline for sending applications is **March 15, 2019**, see the next page for information on the application procedure. By the same date, the candidate should arrange for up to three reference letters to be e-mailed separately to carlotta.gruppioni@inaf.it .

**Application procedure**

Applications must be sent via e-mail to: inafoasbo@postecert.it. In the email subject the applicant should make explicit reference to: **“Assegno Post Dottorato ASI-INAF SPICA”**

The application must include:

* the Application Form (see Annex A)
* a Self-certification Form (see Annex B)

Instructions on how to fill Annexes A and B are given in the Instructions\_for\_Annex\*.pdf files.

As detailed in Annex A, the applicant also needs to attach:

1. a curriculum vitae (**dated and signed**);
2. a statement of past research activities that are relevant for the fellowship;
3. a self-declaration about PhD degree, including title of PhD dissertation, academic organization that released the degree, and date of achievement;
4. a list of scientific publications that are relevant for the fellowship (optionally attach copy of those not listed on ADS);
5. any other work or publication the applicant deems useful;
6. a list of all presented documents.

**Each of the above documents must be signed and dated. Note that the application will be rejected if incomplete and/or unsigned.**