

## PhD in "Radiative transfer codes for the study of terrestrial and extraterrestrial atmospheres"

This PhD position is inserted in the PNRR-EMM (Earth Moon Mars) project framework. The atmospheric radiative transfer models are powerful tools to study the radiative transfer interactions of light scattering and absorption through the Earth and Planetary atmospheres. During the three-year PhD period, the candidate will have the opportunity to be included in different research activities of the research group which mainly develops and makes use of current state-of-the-art radiative transfer models in the infrared (IR) and in the ultraviolet – visible (UV-VIS) for several applications. The candidate will collaborate with researchers specialized in individual specific areas, stimulating an interdisciplinary approach.

**Institute of Atmospheric Sciences and Climate** of the Italian National Research Council (CNR-ISAC), in collaboration with the Italian National Institute for Astrophysics (INAF) and the University of Bologna, will be opening a 3-year PhD position on this topic.

- **Goal**: Learn to use different radiative transfer codes to simulate and analyse the spectral observations of Earth's and planetary atmospheres from FIR to UV in both Nadir and Limb geometries in different atmospheric conditions.
- **Degree**: Physics, chemistry, mathematics, engineering, informatics.
- Experience: A basic knowledge of Earth atmosphere is welcome but not fundamental.
- **Coding**: The PhD student will make use of codes written in different languages (e.g. Python, Fortran , IDL).
- Salary level: 1250 per month (net)
- **Deadline for application:** 20/06/2023
- Starting date: November 2023
- Contract length: 36 months
- Location: CNR-ISAC, Bologna, Italy. Courses will be held during the first year at the University of Bologna.

## If you are interested in joining our team for this exciting project and for any further information please contact:

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The official link to the call can be found here: <u>Unibo PhD page</u> Additional details will be available here soon: <u>Unibo PhD description</u>