

**Contract Number:** MEXT-CT-2005-023878 - Marie Curie Excellence Grant

**Project Title:** 3D Optical Turbulence Forecast above Astronomical Sites

**Job Title:** Post-Doc position - Experienced Researcher (4-10 years experience in the EC definition).

**Job Description:**

A motivated, highly autonomous and flexible researcher will be selected to be part of a research group led by Elena Masciadri and funded by a Marie Curie Excellence Grant having, as a main goal, the simulation and forecast of the optical turbulence for astronomical applications.

The candidate is requested to have a background in measurements of optical turbulence for astronomical applications (Generalized Scidar, DIMM, MASS,...) and data analysis. Experience in physics of the atmosphere and High Angular Resolution Techniques is expected.

The main tasks of the candidate will include the collection and analysis of measurements taken with different instruments in different astronomical sites (Mt. Graham and Antarctica) and the creation of a data archive for the MC Group and the LBT Adaptive Optics Group. A large part of the work will be addressed to a cross-correlation analysis of measurements provided by different instruments.

Applications should include a Curriculum Vitae with scientific interests. The candidate should also provide 2 letters of reference.

The Host Institute is the Osservatorio Astrofisico of Arcetri in Florence (Italy). The main topic of this project is inserted in a multidisciplinary and leading edge field at the borderline between astronomy, physics of the atmosphere and meteorology. Candidates who might contribute to national and gender diversity in the research group are encouraged to apply.

Candidates devoted to a team work are expected.

Further information on the *Core Project Description* can be found at the site <http://mc-opportunities.cordis.lu>.

**Contract Type:** Temporary Position - Experienced Researcher (4-10 years experience in the European Community definition). (Handbook Marie Curie Excellence Grant - Type A Contract, pag. 48 – [http://europa.eu.int/comm/research/fp6/mariecurie-actions/action/excellence\\_en.html](http://europa.eu.int/comm/research/fp6/mariecurie-actions/action/excellence_en.html))

Thanks to a special Italian law aiming to exhort and favor the incoming of qualified scientists in the country, researchers coming from a foreign country with at least 2 years of activity in a foreign Research Institute will take advantage of a reduction of taxes if they will be 'fiscally resident'.

**Number of position:** 1

**Deadline:** 1 March 2006

**Start data:** Between April-October 2006.

**Duration:** 12 months

**Salary:** EU scale, depending on family status  
(Handbook Marie Curie Excellence Grant -  
[http://europa.eu.int/comm/research/fp6/mariecurie-actions/action/excellence\\_en.html](http://europa.eu.int/comm/research/fp6/mariecurie-actions/action/excellence_en.html))

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**Discipline:** Physics, Astrophysics

**Town:** Florence

**Country:** Italy

**How to apply:** E-mail (please, add the personal e-mail and telephone number).