



UNITED NATIONS OFFICE AT VIENNA OFFICE DES NATIONS UNIES A VIENNE

**OFFICE FOR OUTER SPACE AFFAIRS**

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**LONG-TERM FELLOWSHIP OPPORTUNITY  
INFORMATION NOTE**

**The United Nations/Italy Long-term Fellowship Programme  
On Global Navigation Satellite Systems (GNSS) and Related Applications**

- 1. Thematic Area:** Global Navigation Satellite Systems (GNSS).
- 2. Title:** Master in Navigation and Related Applications (MNA).
- 3. Offering Institutions:** Politecnico di Torino (School of Information Technologies) and Istituto Superiore Mario Boella (ISMB), with the collaboration of Istituto Elettrotecnico Nazionale Galileo Ferraris (IEN), Turin, Italy.
- 4. Executing Agency:** United Nations Office for Outer Space Affairs, Programme on Space Applications.

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- 5. Duration and Beginning Date:** 12 months, beginning 24 September 2007. Selected participants are encouraged to attend orientation meetings at Politecnico di Torino (first week of September 2007) and Italian language intensive course (starts on the second week of September 2007) prior fellowship study.
- 6. Deadline for Applications:** Application form and other required documents (see section 12 below) shall be received in the UN Office for Outer Space Affairs **by 15 May 2007**. Candidates will be notified on the outcome of their application by 1 July 2007.
- 7. Fellowship Language:** English only
- 8. Total Number of Fellowships Available:** Five.
- 9. Brief Programme Description:** The Master in Navigation and Related Applications (MNA) Programme starts on 24 September 2007 and lasts for 12 months, including a period ranging from 4 to 6 months for hands-on pilot project (internship). The MNA Program study provides an extensive background knowledge in navigation/localization systems as well as a detailed analysis on NAV/COM integration and environmental monitoring applications.

The MNA Programme includes 80 Educational European Credits (ECTS). Among the 80 credits, 50 credits are earned through taking courses, and 30 are completed as internship in technical laboratories of ISBM and IEN, or hands-on project through a company operating in the field of navigation or in the production of navigation-related applications.

Selected participants should perform the pilot project in a technical lab in their own home country under the supervision of a local expert and in coordination with a member of the scientific committee of the MNA programme.

For additional details please see the attached booklet and visit the website of Politecnico di Torino: <http://www.didattica.polito.it/master/navigation/>.

**10. Financial Arrangements:** The selected participants will each receive a grant from Politecnico di Torino of about EUR 8,000 for the duration of their fellowship study (12 months) to cover housing, food, local transportation, etc. The offering institution will also cover tuition fee in full for these participants.

**11. Admission Requirements:** The MNA Programme candidates are required **to have completed Master Degree or equivalent (5 years University degree)** in Aerospace Engineering, Electrical Engineering, Environmental Engineering, Communication Engineering, Information Technology or related subjects. Other degrees in different technological fields can be considered by the Master Commission.

Written and spoken English is required, together with basic knowledge in communication theory and electronics.

Candidates also should have some experience in the following areas:

- Principles of digital communications and signal processing;
- Basics of electromagnetic wave propagation;
- Basics of software tools (e.g. Matlab) and programming languages (e.g. C).

**12. Application to the Fellowship Programme:** Please refer to the enclosed document “Terms of Participation in the Long-term Fellowship Programmes”.

**13. Responsibilities of the Nominating Government/Agency/Organization:** The nominating government agency, organization or academic institution should bear the following costs on behalf of the selected participant for the duration of the fellowship programme:

- All expenses in the home country for preparation of travelling abroad, including passport, entry visa, medical examinations, inoculations, and other miscellaneous items, and domestic travel to and from the international airport of departure for Italy, in the home country;
- Salary and related allowances to which a participant may be entitled in his/her country during the period of the fellowship programme study;
- Life insurance and health insurance for the participant for the duration of the fellowship programme study.