



UNITED NATIONS
Office for Outer Space Affairs

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 (UN-OOSA), Programme on Space Applications.

Contact Person: The UN Expert on Space Applications
Address: Office for Outer Space Affairs
 United Nations Office at Vienna
 P.O. Box 500, A-1400 Vienna, Austria
Phone: +43-1-26060 4268
Fax: +43-1-26060 5830
E-mails: unpsa@unoosa.org, kurian.manivanipurathu@unoosa.org

5. **Duration and Beginning Date:** 12 months, beginning 24 September 2012. Selected participants are encouraged to attend orientation meetings at Politecnico di Torino (starts on the first week of September 2012) and Italian language intensive course (starts on the second week of September 2012) prior the 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 2012**. Selected candidates will be notified on the outcome of their application by 10 June 2012.
7. **Fellowship Language:** English only
8. **Total Number of Fellowships Available:** Four.
9. **Brief Programme Description:** The Master in Navigation and Related Applications (MNA) Programme starts in September 2012 and lasts for 12 months, including a period ranging from 3 to 4 months for hands-on pilot project (internship). The MNA Program study provides 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



UNITED NATIONS
Office for Outer Space Affairs

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://didattica.polito.it/master/navigation/>.

10. Financial Arrangements: The selected participants will each receive a grant from Politecnico di Torino of about EUR 6,000 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. International round trip air travel between the participant's international airport of departure and Turin, Italy (most direct and economic route) may be provided by the UN-OOSA.

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: Fully completed application form should be submitted in duplicate by mail to the United Nations Expert on Space Applications **no later than 15 May 2012**. It may also be sent through the Office of the Resident Representative of the United Nations Development Programme (UNDP) in applicant country. To accelerate processing of application, an advance copy should also be e-mailed or faxed directly to the Office for Outer Space Affairs. For additional details, please refer to the enclosed document "Terms of Participation in the Long-term Fellowship Programmes".

In addition to the enclosed UN-OOSA fellowship application form, all applicants are encouraged also to fill up the on-line application form of Politecnico di Torino as it will help to streamline the process of selecting recipients of the fellowship grants. Instructions on how to proceed with that and the link to appropriate webpage of Politecnico di Torino are available on the UN-OOSA website: <http://www.unoosa.org/oosa/en/SAP/gnss/fellowships.html>



UNITED NATIONS
Office for Outer Space Affairs

Upon reviewing the received applications, the organizers will pre-select a group of most qualified candidates and may request those pre-selected candidates to complete an on-line application form available on the web site of Politecnico di Torino (if it has not been done before) and to provide some additional information/details. A final selection of 4 participants of the fellowship programme will be made by Politecnico di Torino and UN-OOSA on a basis of evaluation of application documents received.

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.

14. Additional information: The latest information on/updates to the fellowship programme will be available on the website of the UN Office for Outer Space Affairs:
<http://www.unoosa.org/oosa/en/SAP/gnss/fellowships.html>

Applicants are also advised to familiarise themselves with information from Politecnico di Torino website: <http://didattica.polito.it/master/navigation/>.