

No.12040/20/2014-TRG(FTC/IR)
Government of India
Ministry of Personnel, Public Grievances & Pensions
Department of Personnel and Training
Training Division

Block-4, Old JNU Campus
New Mehrauli Road, New Delhi-67
Dated 28th May, 2014

TRAINING CIRCULAR

Subject: The United Nations/Italy Long-term four Fellowship Programme on Global Navigation Satellite Systems (GNSS) & Related Applications for twelve (12) months at Politecnico di Torino, Turin, Italy from October 2014

1. The undersigned is directed to state that The United Nations Office for Outer Space Affairs (UNOOSA) in collaboration with Istituto Elettrotecnico Nazionale Galileo Ferraris (IEN), Turin, Italy have invited applications for a Masters Programme in Navigation and Related Applications (MNA) to be held in Italy for a period of 12 months starting from October 2014. There are 4 slots available globally.
2. This fellowship programme is offered through the United Nations Office for Outer Space Affairs (UNOOSA), by 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, for candidates from developing countries and countries with economy in transition and provides extensive background knowledge in navigation/localization systems as well as a detailed analysis on NAV/COM integration and environmental monitoring applications. Prospective candidates and their nominating organizations should study the attached documents carefully and familiarize themselves with the terms for participation in this long-term fellowship programme.
3. 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 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 UNOOSA.
4. The nominating organization should bear the following costs on behalf of the selected participants for the duration of the fellowship programme:
 - a) All expenses in the home country for preparation of travelling abroad, including passport, entry visa, medical examinations, inoculations, and other miscellaneous items domestic travel to and from the international airport of departure for Italy, in the home Country;
 - b) Salary and related allowances to which a participant may be entitled in the country during the period of the fellowship programme study;
 - c) Life and health insurance for the participant for the duration of the fellowship programme study.
5. The candidate for this programme should not exceed 40 years of age; 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; having a competent command of spoken & written English, together with basic knowledge in communication theory and electronics; having some experience in Principles of digital communications and signal processing, Basics of electromagnetic wave propagation and Basics of software tools (e.g. Matlab) and programming languages (e.g.C).

....2/-

6. In addition to the above, the following information in respect of the nominated officers may please be furnished while furnishing the nomination:

- a) Whether attended any foreign training programme in the past? If so, the duration/detail thereof;
- b) Whether clear from vigilance angle;
- c) Age;
- d) Whether working in North East State/J&K;
- e) A brief in 50-100 words justifying the nomination.

7. It is requested that the nomination of suitable candidates (**in duplicate**) may please be forwarded in the UN's prescribed proformas to this Department in accordance with the eligibility criteria. An advanced copy should also be e-mailed or faxed directly to the Office for Outer Space Affairs.

8. The applications should reach this Department through the Administrative Ministry/State Government not later than **31st May, 2014**. Nominations received after the prescribed date will not be considered. The details of the programme and the application form may be drawn from Ministry of Personnel, Public Grievances and Pensions website (**persmin.nic.in**).



(N.K. Wadhwa)

Under Secretary to the Government of India

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Copy to:

- a) The Secretary, Department of Space, 3rd Floor, Lok Nayak Bhavan, New Delhi-110003,
- b) The Secretary, Ministry of Science & Technology, Technology Bhavan, New Mehrauli Road, New Delhi,
- c) The Secretary, Department of Electronics & Information Technology, Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi-110003,
- a) The Chief Secretaries to all the State Governments/Union Territories(with request to circulate the same amongst their related Departments/Organizations),
- b) NIC with request to post the circular along with the JICA's circular on this Department's website.



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-mail: unpsa@unoosa.org

5. **Duration and Beginning Date:** 12 months, starting in October 2014. Selected participants are encouraged to attend orientation meetings at Politecnico di Torino and Italian language intensive course (both start in the first half of October 2014) 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 2 June 2014**. Selected candidates will be notified on the outcome of their application by 30 June 2014.
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 October 2014 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



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: <https://didattica.polito.it/master/navigation/2015/introduction>.

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 2 June 2014**. 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 also required to complete 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>



Upon reviewing the received applications, the organizers will pre-select a group of most qualified candidates and may request those pre-selected candidates to fill up 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: <https://didattica.polito.it/master/navigation/2015/introduction>.



FELLOWSHIP APPLICATION FORM

(To be filled in by typing or in block letters)

**The United Nations/Italy Long-term Fellowship Programme
On GNSS and Related Applications (Turin, Italy)
(deadline for submission: 2 June 2014)**

<p>Nominee's full Name:</p> <p>Nominee's institution and country:</p>	<p>Please attach a recent photo here</p>		
<p>Hereby is nominated for the <i>UN/Italy long-term fellowship programme on GNSS and Related Applications.</i></p> <p>The nominating agency/organization will be able [] will not be able [] to provide nominee's international roundtrip air travel ticket to Turin, Italy.</p> <p>The nomination is certified by</p> <p>_____</p> <p style="text-align: center;">(Name of head of nominating organization)</p> <p>_____</p> <p style="text-align: center;">(Official title of certifying officer)</p> <p>_____</p> <p style="text-align: center;">(Signature of head of nominating organization)</p>			
<p style="text-align: right;">Official seal of institution and its e-mail address</p>			
<p>Date: _____</p>			
<p>COMPLETED APPLICATION FORMS AND ANNEXES SHOULD BE SENT <u>IN DUPLICATE</u> TO THE UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS</p> <p>Selected candidates will be notified by e-mail by 30 June 2014. Those candidates should then confirm their acceptance of the offer no later than in 5 days after notification.</p>			
<p>Name, official title and professional relationship of three referees who are familiar with the applicant's work and qualifications:</p>			
	Name	Title	Relationship
1.			
2.			
3.			

PERSONAL HISTORY

Family name:		First name:		Other names:	
Date of birth:			Place of birth:		
Official mailing address:			Home address:		
Phone:		Nationality/Citizenship	Gender	Marital status	
Fax:					
E-mail:					
E-mail 2:					
Person to contact in case of emergency:					
Relationship:					
Address:					
Phone:		Fax:		E-mail:	

EDUCATION

Institution	Dates	Field	Degree

Please indicate your specialization:

- | | |
|--|--|
| <input type="checkbox"/> Electrical Engineering | <input type="checkbox"/> Environmental Engineering |
| <input type="checkbox"/> Aerospace Engineering | <input type="checkbox"/> Computer Science |
| <input type="checkbox"/> Communication Engineering | <input type="checkbox"/> Information Science |
| <input type="checkbox"/> Information Technology | <input type="checkbox"/> Physics |
| <input type="checkbox"/> Mechanical engineering | <input type="checkbox"/> Other: |

Please state an average score/mark of passed exams during your final study: _____
 (please indicate a score system - _____ e.g. 1-20 or A-F.
 and maximum grade obtainable - _____ e.g. 20 or A)

Those who come from a university which uses credits, please specify the type of system:

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> - ECTS (European system) | <input type="checkbox"/> - USA system |
| <input type="checkbox"/> - Other (specify): | |

Publications - list any relevant publications (papers or articles) (Attach an extra page if necessary.):

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Relevant courses, workshops, seminars or meetings you have attended in the last five years:			
Location	Title of activity	Duration (dates)	Sponsors

Please state briefly your reasons for applying to participate in this Fellowship Programme:

EMPLOYMENT RECORD

PRESENT POST: Title, unit and organization	
Dates:	Address of organization (including telephone and fax numbers, and e-mail address):
Functions of organization:	
Name of supervisor:	
Description of your work	
PREVIOUS POST: Title, unit and organization	
Dates:	Address of organization (including telephone and fax numbers, and e-mail address):
Functions of organization:	
Name of supervisor:	
Description of your work	

RELEVANT TECHNICAL BACKGROUND/EXPERIENCE

Elements of Signal Processing <input type="checkbox"/> YES <input type="checkbox"/> NO	Elements of Digital Transmission <input type="checkbox"/> YES <input type="checkbox"/> NO	Elements of Communication Systems <input type="checkbox"/> YES <input type="checkbox"/> NO	Elements of Navigation Systems <input type="checkbox"/> YES <input type="checkbox"/> NO
Basics of Communication Receiver Technology <input type="checkbox"/> YES <input type="checkbox"/> NO	Basics of Timing <input type="checkbox"/> YES <input type="checkbox"/> NO	Basics of Electromagnetic Wave Propagation <input type="checkbox"/> YES <input type="checkbox"/> NO	Programming Languages:

CERTIFICATION OF KNOWLEDGE OF ENGLISH

Name of candidate:	
ABILITY TO UNDERSTAND SPEECH <input type="checkbox"/> Understands without difficulty <input type="checkbox"/> Understands almost everything <input type="checkbox"/> Requires frequent repetition	ABILITY TO SPEAK <input type="checkbox"/> Speaks fluently <input type="checkbox"/> Speaks intelligibly <input type="checkbox"/> Speaks haltingly
ABILITY TO WRITE <input type="checkbox"/> Writes with ease and accuracy <input type="checkbox"/> Writes slowly <input type="checkbox"/> Writes with difficulty	ABILITY TO READ <input type="checkbox"/> Reads fluently <input type="checkbox"/> Reads slowly <input type="checkbox"/> Translates with difficulty
Other remarks:	
TOELF Certificate: <input type="checkbox"/> YES <input type="checkbox"/> NO	
Certification by language examiner	
Language tested by	

(Name)	

(Title of examiner)	

(Institution, city, country)	
Date of examination:	_____
Signature of examiner:	Seal of Language Institution

Please enclose your Curriculum Vitae, signed and dated by you, to this application form.

CANDIDATE'S CERTIFICATION

I hereby certify that the statements that I have made in this application form are true, correct and complete.	
If selected, I hereby confirm that I will comply with the Terms of Reference of the Programme and I will make myself available for duration of the entire Fellowship.	
Date:	Signature of candidate:

This form, FULLY COMPLETED, should be submitted in duplicate by mail to the United Nations Expert on Space Applications, Office for Outer Space Affairs, United Nations Office at Vienna, Vienna International Centre, P.O. Box 500, A-1400 Vienna, Austria, **no later than 2 June 2014**. You may also send this application form through the Office of the Resident Representative of the United Nations Development Programme (UNDP) in your country.

To accelerate processing of your application, you should also e-mail an advance copy directly to the Office for Outer Space Affairs, e-mail address: unpsa@unoosa.org, or to send it by fax to the fax number (+43 1) 26060 5830.

IMPORTANT: In addition to the current form, all applicants are also requested 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>

NOTE: THIS APPLICATION IS VALID ONLY IF **ALL AND EVERY** INFORMATION REQUESTED IS PROVIDED.



REFEREE'S REPORT

**The United Nations/Italy Long-term Fellowship Programme
On GNSS and Related Applications**
1 year, starting in October 2014, Turin, Italy
(deadline for submission: 2 June 2014)

Name of applicant _____
First Middle Last or family

Country of applicant _____

Name of referee _____
First Middle Last or family

Title of referee _____

Affiliation and mailing address of referee _____

The portion above should be completed by applicant

To the referee: Please complete the sections below. Your accurate evaluation of the applicant named above is essential to the successful implementation of the United Nations Programme on Space Applications. Your comments on the applicant will be kept confidential.

1. I have known this applicant (check as appropriate) as a graduate student (), as a research assistant (), as a professional colleague (), other ()
2. I was acquainted with the professional work of the applicant from _____ to _____
3. I had an excellent _____ good _____ fair _____ poor _____ opportunity to observe his/her professional work.
4. In comparison with other individuals of similar training and experience, what is your evaluation of the applicant with respect to the following:



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Knowledge of fundamentals in subjects relevant to or required for the fellowship programme:
Outstanding _____ Good _____ Average _____ Poor _____

Ability to make good scientific judgements:

Ability in self-expression:

Knowledge of language of the course:

5. In comparison with other individuals of similar training and experience, what is your evaluation of the applicant with respect to overall scientific or engineering ability:

Outstanding _____ Good _____ Average _____ Poor _____

6. The applicant will have _____ will not have _____ adequate opportunities in his/her country to make use of the skills to be gained through this fellowship programme.

7. If you respond in item (6) that the applicant will have adequate opportunities in his/her country, please describe the specific details of such opportunities.

8. Other comments that you think might be helpful in assessing the applicant's ability and potential.

Signature of referee _____ Date _____

NOTE: In order to a proper evaluation of the applicant, the referee should kindly return this form (completed) directly to the United Nations Expert on Space Applications, Office for Outer Space Affairs, Vienna International Centre, P.O. Box 500, A-1400 Vienna, Austria, e-mail: unpsa@unoesa.org.



**Terms of participation in the long-term fellowship programmes
offered through and/or administered by
the United Nations Programme on Space Applications**

1. Participation

Applicants should be (i) nationals of developing countries or countries with economy in transition, (ii) duly nominated by their governments, (iii) age of candidate should not exceed forty (40) years, (iv) should have the academic and professional backgrounds required by the specific fellowship programme, and (v) should be able to make professional use of the experience gained in the study programme.

2. Documentation Required

- a) **Fellowship Application Form** - should be (i) duly completed by the applicant (two copies), (ii) certified on behalf of the nominating government by the certifying officer* and (iii) forwarded by the certifying officer to the United Nations Expert on Space Applications by mail or through the Resident Representative of the United Nations Development Programme (UNDP) in the applicant's country.

An advanced copy of completed and certified application form should be directly send by fax or e-mail to the Office for Outer Space Affairs.

Documents (b) and (e) described below should be completed and forwarded directly to the United Nations Expert on Space Applications by the institution(s) or individual(s) providing the requested information but definitely not by the applicant(s):

- b) **Referee Reports.** Three (3) completed Referee reports should be sent by the 3 referees, one of whom should be the employment or study supervisor of applicant, directly to the United Nations as indicated on the form.
- c) **Academic certificate.** Two official copies of the education certificate as well as academic transcripts indicating the subjects and examination grades (marks) received in each subject should be submitted directly to the United Nations Expert on Space Applications.
- d) **Curriculum vitae** signed and dated by applicant.

* The certifying officer shall not be lower in rank than the Head of the applicant's Department, Institution or Ministry. The certifying officer attests to the accuracy of the information provided by the applicant in his/her application form and the *bona fide* status of the applicant in his/her institution.



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- e) **Diploma or certificate of competence in the language of the fellowship programme.** If the official language of the applicant's country is different from the language of the fellowship programme, a diploma or certificate of competence in the language should be submitted directly to the United Nations Expert on Space Applications. This diploma/certificate should be issued by an accredited language institution or by the local UNDP upon satisfactory establishment of the applicant's competence in the language concerned.

3. **Administrative Arrangements**

a) **Responsibilities of the United Nations**

The United Nations will advertise the information on available fellowships and will, in consultation with the offering government/institutions, select qualified applicants as recipients of fellowship award.

The United Nations also may provide a number of selected participants with international round-trip air ticket between the participant's international airport of departure and Turin, Italy.

b) **Responsibilities of the nominating government/agency**

The nominating government/agency will bear the following costs on behalf of the selected participant:

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

Special consideration will be given to applicants in the case of their nominating government/agency taking responsibility for covering the round-trip international travel fair from home country to Turin, Italy.

c) **Applicants for a fellowship programme should note that the United Nations and the government/institutions offering the fellowships will NOT assume responsibility for the following expenditures:**

- i) Any costs incurred by dependent or spouse who accompany the participant.



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- ii) Costs incurred by the participant with respect to travel insurance;
- iii) Loss or damage of personal property while enrolled in the fellowship programme;
- iv) Compensation in the event of death or disability of the participant in connection with his/her enrolment in the fellowship programme;
- v) Any claim toward expenses incurred by participants other than what is specified in the fellowship programme description document.

d) **Termination of fellowship.**

The United Nations, in consultation with the offering government/institutions, reserves the right to terminate the fellowship programme of any participant upon commencement of the study if:

- i) the participant's academic background regarding the subject of the fellowship programme is found to be inadequate; and/or
- ii) the participant's knowledge and understanding of the language of the fellowship programme are found to be inadequate to pursue the programme of study; and/or
- iii) the participant fails to observe proper conduct during the course of the fellowship programme study; and/or
- iv) the participant withdraws himself/herself from the fellowship programme without any reasonable justification accepted by the offering institution.

In the above cases of the fellowship termination, the UN Office for Outer Space Affairs and offering government/institutions reserve the right to claim from participant or his/her nominating agency cost of air ticket (if it was provided by the United Nations) and/or of the fellowship grant received by the time of termination.

4. **Deadlines for Receipt of Applications**

Only applicants whose completed application forms and all other supporting documents are received by the United Nations in Vienna before or by the deadline established for the fellowship programme, will be considered in the selection process for the fellowship concerned.

Special notice: Applicants should note that selection of fellowship recipients is made on a very competitive basis, as a large number of applications are generally received for a limited number of available fellowships.