



**INDIAN NATIONAL SCIENCE ACADEMY
Bahadur Shah Zafar Marg, New Delhi:110 002**

**DEPUTATION OF INDIAN SCIENTISTS ABROAD
UNDER BILATERAL EXCHANGE PROGRAMME
2011-2012**

Applications are invited from outstanding scientists/researchers holding Ph.D degree and having regular positions in recognised S&T institutions/universities and actively engaged in research in frontline areas for deputation abroad during the year 2011-2012 in all fields of Science including Engineering, Medical & Agriculture for short term visits (2-4 weeks for senior scientists) and long term visits (3-6 months for junior/younger scientists) under the Scientific Bilateral Exchange Programme with overseas Academies/Organisations in Brazil, China, Czech Republic, France, Germany, Hungary, Japan, Kyrghyz Republic, South Korea, Nepal, The Netherlands, Philippines, Poland, Russia, Scotland, Slovak Republic, Republic of Slovenia, Turkey and Ukraine.

The application duly completed and endorsed by the Head of the Institutions should be submitted latest by October 15,2010.

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INDIAN NATIONAL SCIENCE ACADEMY

BAHADUR SHAH ZAFAR MARG, NEW DELHI – 110002

Exchange Programme with Foreign Academies and Organisations

Preamble

The Indian National Science Academy (INSA) is a premier scientific learned body (established in 1935) representing all branches of science –Physical and Biological Sciences including Engineering, Medical and Agricultural Sciences. By virtue of the fact that the Academy is covering a large number of disciplines and is representing Indian Science in these disciplines, the Academy has been promoting scientific cooperation with Academies/Organisations of several countries the world over. The Academy has links with the Academies and Organisations in Asia and Eastern & Western Europe. These programmes provide opportunities to scientists working in various scientific institutions and organizations in the country for exchange of ideas, knowledge, establish new links, strengthen old links and undertake joint projects with their research partners in the leading laboratories and institutions abroad. The Academy and the particular institution/University share equally the expenditure on travel of their scientists selected by INSA visiting abroad under Exchange Programme.

The Academy has an International Exchange Programme with Academies/Organisations in the countries : Brazil, China, Czech Republic, France, Germany, Hungary, Japan, Kyrgyz Republic, South Korea, Nepal, The Netherlands, Philippines, Poland, Russia, Scotland, Slovak Republic, Republic of Slovenia, Turkey and Ukraine.

Application Procedure/Eligibility

Applications are invited from the Indian Nationals every year in the month of July/August for consideration by the Academy for the next fiscal year. The meeting of the concerned committee is held sometimes in January/February. The applicant should be a scientist holding a regular position in a recognized S & T Institution/University and actively engaged in research work in frontline areas. The scientist should not have been abroad during last 3 years under any INSA Programme. The scientist should have been accepted to work in a Institute/Laboratory in the country to be visited and this should be supported by a letter and the latest correspondence from the host abroad. Scientists who wish to visit abroad for three to six months should submit a detailed programme of their collaborative research work to be conducted. Scientists should be officially sponsored i.e. application should be forwarded through proper channel by employer/head of the Institute indicating commitment on travel.

Scope of Finance

Scientists selected for deputation abroad would be provided 50% travel support (by excursion class air fare, wherever applicable) by INSA. The receiving Academy/Organisation would provide the local hospitality including internal travel abroad. Preference would be given to those scientists whose parent institute agrees to provide 100% travel support.

Criteria for Selection

The Criteria for selection would mainly be the scientific contribution and the purpose of the visit.

Short-term visits are mainly for 2 to 4 weeks for holding scientific discussions, delivering series of lectures and seminars, projecting Indian science abroad. It is expected that short-term visitors are well established Indian Scientists who can be effective Ambassadors of Indian Science. Under long-term category, the scientists are expected to work primarily in one institute with a short visit to other allied institutes.

If a scientist desires to attend a conference/scientific meeting during his visit abroad under the Exchange Programme, the period of the conference should normally be not more than one fourth of his/her total stay in the country. If a scientist desires to visit abroad only to attend the Symposium/Conference, he/she should request for a separate application form from the Academy for necessary support under the ICSU/Non ICSU scheme.

Under the exchange programme with the Academies in France and the Netherlands, only established scientists who are well known internationally for their research contributions or Fellows of the Academy would be considered for nomination.

The visit should be availed of in the same financial year. Failure to do so may render them to forfeit the nomination.

Support to INSA Young Scientist Awardees

INSA Young Scientist Awardees as a part of their career development are provided opportunity to visit abroad under the Bilateral Exchange Programme with full travel support once within the five years of having received the award. After that they would be considered alongwith the other applicants.

Research Areas for Poland and Russia

Visits to Poland and Russia would be organised only under the following identified areas. For other countries there are no specific identified areas.

POLAND

- A. Mathematical Sciences including Statistics and Physical Sciences including Engineering:*
Theoretical Physics, Astronomy, Space Physics, Low Temperature Physics, Solid State Physics, Crystallography; Chemistry including Organic Chemistry, Polymer Chemistry, Solid State Chemistry, Bio-Chemistry; Surface Science Catalysis, Thermodynamics, Chemical Physics, Fluid Mechanics, Turbo Mechanics and Chemical engineering;

Computer Science; Earth Sciences including Geomorphology and Hydrology.

- B. *Biological Sciences including Medical Sciences*: Experimental Biology including Molecular Biology, Biotechnology, Microbiology and Developmental Biology, Immunology and Transplantology; Pharmacology including Clinical Pharmacology and Toxicology; Tropical Biology with special references to Systematics and Reproductive Biology; Environmental Sciences; Agricultural Sciences including Forestry.

Russia

- A. Mathematics: A-1 : Mathematical Statistics & Probability Theory; A-2: Theoretical and Applied Mathematics (Differential Equations; Computational Mathematics; Mathematical Modelling and Mathematical Physics); A-3 : New Technologies in Informatics.
- B. Physics: B-1 : Low Temperature Physics; B-2 : Condensed Matter Physics : Crystal Growth; Laser Materials; Optoelectronic Materials; Semiconductors; Thin Film; Liquid Crystal and Molecular Beam epitaxy; B-3 : Plasma Physics including Astrophysical Aspects; B-4 : Radio Astronomy including VLBI; B-5 : Theoretical Physics (Statistical Physics, Non-Linear Phenomena, High Energy Physics and Nuclear Physics).
- C. Chemistry: C-1: Structural Inorganic Chemistry and Organometallic Chemistry; C-2 : Solid State Chemistry and Catalysis; C-3: Electro Chemistry; C-4 : Theoretical Chemistry and Molecular Structure, including Programmes on Magnetic Resonance, Chemical Dynamics; C-5 : Chemistry of Natural Products including Bio- organic Chemistry.
- D. Earth Sciences: D-1 : Comparative geological studies in India and Russia; Comparative Investigation of Stratigraphy, Absolute Age, Composition, Structure and Mineral Deposits (metallic and non-metallic raw materials) of the Precambrian Shields of India and Russia; Comparative Investigations of Basaltic Rocks (traps) of India (Deccan) and Russia (Siberia); Comparative Investigation of Stratigraphy and Palaeontology of the Proterozoic Mantles of the Indian Platform and the Siberian Platform : Tectonics, Magnetism, Sedimentation Metallogeny and Evolution of Rift Zones; Development of New Techniques for the Analysis of Mineral substances, D-2: Geomagnetism; D-3 : Atmospheric Sciences and Oceanography including Problems of Modelling.
- E. Engineering Sciences: E-1 : Mass Transfer including treatment effluents from Chemical Industry; E-2 : 130
New Engineering Materials; Science, Technology and Processing including composites; E-3: Tribology.
- F. Biological Sciences: F-1 : Physico-Chemical Biology including Bio-Technology, Microbiology and Bio-Engineering; F-2 : Cell Biology and Genetics, Cell & Tissue Culture, Conservation of Plants; F-3 : Investigation and Protection of Environment; F-4 : Neurobiology including Higher Nervous Activity.
- G. History of Science.

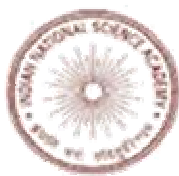
Countries indicating positions available under each exchange programme are as follows:

Brazil	2 Scientists for 3-8 weeks, 2 Scientists for 3-6 months
China	6 Scientists for 2 - 4 weeks (Only to Institutes under the Chinese Academy of Sciences)
Czech Republic	4-6 Senior Scientists for 2-6 weeks, 1-2 Junior Scientists for 3-6 months
France	2 Scientists of outstanding calibre for 1-2 weeks.
Germany	10-12 Senior Scientists for 2-3 weeks, 15-20 Junior Scientists for 3-6 months
Hungary	2-3 Senior Scientists for 2-3 weeks, 6-7 Junior Scientists for 1-3 months
Japan	7-8 Senior Scientists for 2-4 weeks, 4-5 Junior Scientists for 1-3 months
Kyrgyz Republic	3-4 Senior Scientists for 1-3 weeks, 4-5 Junior Scientists for 1-3 months
South Korea	4 Senior Scientists for 10-21 days, 3 Junior Scientists for 1-3 months
Nepal	10 Senior Scientists for 3-4 weeks, 5 Junior Scientists for 6 months to 1 year
Netherlands	5 very Senior Scientists for 2 weeks.
Philippines	5 Scientists for 1-3 weeks
Poland	6 Senior Scientists for 3-4 weeks, 3 Junior Scientists for 6 months
Russia	30 man months both for Senior and Junior Scientists for 2 weeks to 6 months
Scotland	2-3 Senior Scientists for 2-4 weeks, 3-4 Junior Scientists for 1-3 months
Slovak Republic	2-3 Senior Scientists for 2-3 weeks, 2 Junior Scientists for 2 months
Republic of Slovenia	3-4 Senior Scientists for 2-4 weeks
Turkey	4-6 Scientists for 2-4 weeks
Ukraine	6 man months both for Senior and Junior Scientists

Visit to Poland and Russia would be organized under the identified areas indicated in the Information Sheet. For Russian Programme candidates also may indicate in the application form below the box (Area of Specialization), the code number under which the area of research falls as given in the Information Sheet.

The 3 set of the complete application form along with enclosures attached separately with each application should be submitted latest by 15 October to the following :

**The Inter Academy Officer
Indian National Science Academy
Bahadur Shah Zafar Marg
New Delhi - 110002**



Three Copies of typewritten application form to be sent to Academy by 15th October for visit proposed during next financial year

INDIAN NATIONAL SCIENCE ACADEMY

BAHADUR SHAH ZAFAR MARG, NEW DELHI – 110 002

Application form to visit abroad under International Scientific Collaboration and Exchange of Scientists Programme with Brazil, China, Czech Republic, France, Germany, Hungary, Japan, Kyrghyz Republic, Nepal, The Netherlands, Poland, Philippines, Korea (South), Russia, Scotland, Slovak Republic, Republic of Slovenia, Turkey and Ukraine.

Country to be Visited _ _ _ _ _

Category of Visit Short/Long Duration*	Area of Specialization	Proposed date and duration of Visit

INSA Fellow*	INSA Young Scientist Medal Awardee*	Non Fellow
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1. (a) Name of the Applicant

(b) Present Position and contact address with
Telephone, Fax, and E-mail number:

* Strike off whichever is not applicable

(c) Age & Date of Birth

(d) Whether the applicant belongs to
SC/ST Category

Yes/No

(If yes, please attach a copy of certificate)

2. Educational Qualifications
(From Post-graduation onwards)

Degree obtained	Year	University/Institute	Any other details

3. Research Experience:
(Please attach a copy of biodata and the latest list of your publications relevant to the activity of your proposed visit. Enclose maximum of three best research papers).

4. Purpose of Proposed visit :

To Learn Techniques	To Plan Collaborative Programme	To have Scientific Discussions
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(a) If proposing to go for a training in specialised area, indicate the field and importance of the training, the name of the institutions proposed to be visited and the correspondence exchanged.

- (b) In case meeting specialists or having scientific discussions, please indicate specific objectives of these meetings with particulars of the scientists to be met

- (c) Details of the lectures/seminars to be given abroad (if any) projecting the Indian science

- (d) Provide a resume in 200 words of your specific plan of work (3 copies)

- (e) Any other details which the applicant may like to give.

- (f) Would biomaterials affecting the loss/disclosure of genetic tool be taken out of the country?

- (g) Does your programme have implications for Intellectual Property of Patent Right : if yes, answer (h) & (i)

- (h) Does your institute have a policy on IPR and Patents?

- (i) How do you plan to protect IPR/Patent issue pertaining to your Programme

5. Name of the scientist(s)/ Institution (s)
(Not exceeding three) with whom/where
work is proposed to be carried out:
(Copies of latest correspondence to be enclosed)

*6. Foreign visit(s) undertaken by the applicant (including those for participation in International Conference under ICSU, Non- ICSU and other Programmes of the Academy) in the preceding three years (Please indicate the following):

Name of the countries visited	Purpose of visit	Year & duration of visit	Financial assistance : (specify quantum of grant received from INSA or from other sources)

7. Have you been promised full or 50% air fare by your organization for your proposed visit? (Please attach a copy of the letter).

8. Are you also an applicant seeking travel grant during the current year under any other scheme of INSA (i.e. ICSU/Non-ICSU). If yes, please give detail.

9. Name and address of two referees: (Not applicable to Fellows of the Academy)

10. Any other relevant facts which have not been covered in the above columns

Signature & Seal of the Head of the Institution

The column must not be left blank. If not visited mention so

Signature of the Applicant
Date:
Place: