



INDIAN NATIONAL SCIENCE ACADEMY

Bahadur Shah Zafar Marg, New Delhi – 110 002

Telephone: 91-11-23221931 – 23221950 (EPABX),

Fax: 91-11- 23235648, 23231095

www.insaindia.org

DEPUTATION OF INDIAN SCIENTISTS ABROAD UNDER BILATERAL EXCHANGE PROGRAMME 2015

Applications are invited from outstanding scientists/ researchers holding Ph.D. degree and having regular positions in recognized S&T institutions/universities and actively engaged in research in frontline areas for deputation abroad during the Calendar year 2015 in all fields of Science including Engineering, Medicine & Agriculture for short term visits and long term visits under the Scientific Bilateral Exchange Programme of the Academy.

The list of countries, detailed guidelines and application form can be downloaded from Download Form menu through <http://www.insaindia.org>. The hard copy of application duly completed and endorsed by the Head of the Institution should be submitted latest by **August 16, 2014** to **The Assistant Executive Director (International), Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi - 110002**. The soft copy of complete application (single PDF file only) should be email to: bepinsa2015@gmail.com. Please include your **Name, Area of Research and Proposed Country** in the subject line of your email. The soft copy filename should be saved as: *Name of Applicant_Proposed Country*. Incomplete applications will be rejected and no further correspondence shall be made.



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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, Medicine and Agricultural Sciences. 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, Europe and South America. 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 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 the Exchange Programme.

The Academy has an International Exchange Programme with Academies/Organizations in the countries: **Afghanistan, Austria, China, Czech Republic, France, Germany, Hungary, Iran, Israel, Kenya, Mauritius, Morocco, Nepal, Philippines, Poland, Russia, Scotland, Slovak Republic, Republic of Slovenia, South Africa, Sri Lanka, Sudan, Taiwan and Turkey.**

Application Procedure/Eligibility

Applications are invited from Indian Nationals for consideration by the Academy for the next calendar year. 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. He/She should not have been abroad during the last 3 years under any INSA Programme. The scientist should have been accepted to work in an Institute/Laboratory in the country to be visited and this should be supported by a letter of invitation from the host abroad. Those who wish to visit abroad for three months should submit a detailed programme of their collaborative research work to be conducted. All applications should be forwarded through proper channel by the employer/head of the Institute indicating their 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/Organization would provide 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 of the nominee and the purpose of the visit, which would be acceptable to the host scientist.

Short-term visits are mainly for 2 to 4 weeks for holding scientific discussions, delivering a 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. Scientists who propose to visit abroad only to attend the Symposium/Conference, need not apply under this programme.

Under the exchange programme with the Academy in France **only Fellows of the Academy** would be considered for nomination.

The visit should be availed of in the same calendar 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 expiry of five years, they would be considered along with other applicants.

Research Areas for Poland and Russia

Visits to Poland and Russia would be organized 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. 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:

Afghanistan	1-2 Scientists for 1-2 weeks to initiate the programme
Austria	1-2 Scientists for 1-2 weeks
China	6 Scientists for 2 - 4 weeks (Only to Institutes under the Chinese Academy of Sciences)
Czech Rep	3-4 Senior Scientists for 2-4 weeks, 2-3 Junior Scientists for 3 months
France	2 Scientists (Fellows only) of outstanding caliber for 2-3 weeks.
*Germany	10-12 Senior Scientists for 2-3 weeks, 15-20 Junior Scientists for 3 months (those who wish to apply for Germany, please follow the attached DFG guidelines)

Hungary	3-4 Senior Scientists for 2-3 weeks, 2-3 Junior Scientists for 1-3 months (<i>Only to Institutes under the Hungarian Academy of Sciences</i>)
Iran	1-2 Scientists for 1-2 weeks
Israel	2-3 Scientists for 2-3 weeks
Kenya	1-2 Scientists for 1-2 Weeks
Mauritius	1-2 Scientists for 1-2 weeks
Morocco	1-2 Scientists for 1-2 weeks
Nepal	10 Senior Scientists for 3-4 weeks, 5 Junior Scientists for 6 months to 1 year
Philippines	5 Scientists for 1-3 weeks
Poland	6 Senior Scientists for 3-4 weeks, 6 Junior Scientists for 3 months
Russia	30 man months both for Senior and Junior Scientists for 2 weeks to 3 months each
Scotland	4 Scientists for 4 weeks
Slovak Rep	2-3 Senior Scientists for 2-3 weeks, 2 Junior Scientists for 2 months
Rep of Slovenia	3-4 Senior Scientists for 1- 2 weeks
Sri Lanka	2 Scientists for 1-2 weeks
South Africa	1-2 Senior Scientists for 2 weeks
Sudan	1-2 Scientists for 2-4 weeks to initiate the programme
Taiwan	1-2 Scientists for 2 weeks
Turkey	3 Scientists for 2 weeks

The visit to Poland and Russia would be organized under the identified areas indicated in the Information Sheet. For the Russian Programme, the 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.

Please note that in no case will a nominee contact the collaborating Academy of the host country. In case such instances are reported, the Indian National Science Academy will be constrained to drop the proposal of the concerned scientist.

Incomplete application, in any respect, will be rejected by the Academy.

Complete application form (***one soft and one hard copy***) along with enclosures (invitation letter) attached separately with each application should be submitted at the latest by **August 16, 2014** to: **The Assistant Executive Director (International), Indian National Science Academy Bahadur Shah Zafar Marg, New Delhi - 110002**



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Typewritten application form to be sent to the Academy by 16 August 2014 for visits proposed during next calendar year. Soft copy email to: bepinsa2015@gmail.com

Application form to visit abroad under International Scientific Collaboration and Exchange of Scientists Programme Afghanistan, Austria, China, Czech Republic, France, Germany, Hungary, Iran, Israel, Kenya, Mauritius, Morocco, Nepal, Philippines, Poland, Russia, Scotland, Slovak Republic, Republic of Slovenia, South Africa, Sri Lanka, Sudan, Taiwan and Turkey.

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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- (a) Name of the Applicant :
- (b) Present Position and contact Address with E-mail, Telephone And Fax :
- (c) Age & Date of Birth :

*Strike off whichever is not applicable

2. Educational Qualifications (From Post-graduation onwards)

Degree obtained	Year	University/Institute	Any other details

3. Research Experience:

(Please attach a copy of bio-data and the latest list of your publications relevant to the activity of your proposed visit. Enclose a 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 a specialized area, indicate the field and importance of the training, the name of the institutions proposed to be visited and the correspondence exchanged.

(b) In the case of 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 pool be taken out of the country?

(g) Does your programme have implications for Intellectual Property or 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:

(Formal Invitation Letter must be enclosed, without this application will not be considered)

6. Give details of foreign visit(s) undertaken by the applicant (including those for participation in International Conference under ICSU and other Programmes of the Academy) in the preceding three years:

Name of countries visited	Purpose of visit	Year & duration of visits	Financial assistance: (specify countries visited and the 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? **(copy of the letter must be attached).**
8. Are you also an applicant seeking travel grant during the current year under any other scheme of INSA (i.e. 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

Signature of the Applicant

Date:
Place:

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