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
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 Calendar year 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 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 August 31, 2011.

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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, Medical 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/Organisations in the countries: 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.

Application Procedure/Eligibility

Applications are invited from the 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 and the latest correspondence 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/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 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 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 Academies in France and the Netherlands, 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 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. 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, Magnestism, 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 months
China	6 Scientists for 2 - 4 weeks (Only to Institutes under the Chinese Academy of Sciences)
Czech Rep	4-6 Senior Scientists for 2-6 weeks, 1-2 Junior Scientists for 3 months
France	2 Scientists (Fellows only) of outstanding calibre for 2-3 weeks.
Germany**	10-12 Senior Scientists for 2-3 weeks, 15-20 Junior Scientists for 3 months
Hungary	2-3 Senior Scientists for 2-3 weeks, 6-7 Junior Scientists for 1-3 months
Japan	5-6 Senior Scientists for 3-4 weeks , 4-5 Junior scientists for 1-2 months
Kyrghyz Rep	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 scientists (Fellows only) for 2 weeks
Philippines	5 Scientists for 1-3 weeks
Poland	6 Senior Scientists for 3-4 weeks, 3 Junior Scientists for 3 months
Russia	30 man months both for Senior and Junior Scientists for 2 weeks to 3 months each
Scotland	2-3 Senior Scientists for 2-4 weeks, 3-4 Junior Scientists for 1-3 months
Slovak Rep	2-3 Senior Scientists for 2-3 weeks, 2 Junior Scientists for 2 months
Rep of Slovenia	3-4 Senior Scientists for 2-4 weeks
Turkey	4-6 Scientists for 3 weeks
Ukraine*	3 man months both for Senior and Junior Scientists

*presently these two programmes are under review

Scientists who wish to apply for visit to Germany may please see the NOTE and associated papers at **Annexure-I. The proposal summary given at the end of **Annexure-I** will have to be filled-up by the German host. A copy of the same form should be attached along with application.

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.

Three set of the complete application form along with enclosures (invitation letter) attached separately with each application should be submitted at the latest by **August 31, 2011** to the following:

The Assistant Executive Secretary (International)
Indian National Science Academy
Bahadur Shah Zafar Marg, New Delhi - 110002

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Three Copies of typewritten application form to be sent to the Academy by 31st August 2011 for visit proposed during next calendar year

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*

1. (a) Name of the Applicant :

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

   (c) Age & Date of Birth :

   (d) Whether the applicant belongs to SC/ST Category : Yes/No (If yes, please attach a copy of certificate)

* 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

(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 pool 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. 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? (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). 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:

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

Annexure-I

INSA-DFG PROGRAMME FOR THE INITIATION AND INTENSIFICATION OF INDO-GERMAN BILATERAL COOPERATION

NOTE:

Applicants applying for **Research Stays** (preparatory visits / consultative visits) in the partner country (in Germany or in India) **/ Bilateral Events** will have also to follow, in addition to the application guidelines specified by INSA, the following steps:

1. Carefully go through the DFG Guidelines ***1.813e***

2. Compile the required documents / enclosure as per the DFG guidelines OR ask your German host to do so *(see point 5. below; in general, the enclosures required by, both INSA and DFG guidelines may overlap and can be used in both applications)*

3. Put a special attention on how the proposed joint activity (research visit / bilateral event) will initiate more cooperation in the framework of joint research project initiatives (to be funded by Indian funding partners like DST, UGC or others).

4. Fill-up the highlighted parts of the DFG Proposal Summary ***(DFG Form 1.8131e)***

5. Send the form 1.8131e, along with the necessary documents, to your German host and request him to complete the Proposal Summary: The German host should then forward the duly signed proposal with his comments to the DFG Head Office in Bonn in electronic version (Mrs. Andrea Wabschke; andrea.wabschke@dfg.de) with a copy to you. Once you receive the copy of the proposal from your German counterpart, forward a copy of the same to INSA, New Delhi.

6. Simultaneously, forward the duly filled-in INSA application form, along with the required enclosures, to INSA Headquarters, New Delhi.

INSA-DFG PROGRAMME FOR THE INITIATION AND INTENSIFICATION OF INDO-GERMAN BILATERAL COOPERATION

DFG Guidelines *(exactly as per the guidelines of DFG form 1.8131e)*

In order to establish or enhance bilateral cooperation the DFG offers a modularly structured funding scheme of high flexibility. Applicants who want to initiate or intensify scientific cooperation with Indian partners may receive funding for a period of up to one year. The proposal needs to give a brief but convincing description by which means the scientific cooperation is to be initiated or intensified. Various modules (basically bilateral events, preparatory or consultative visits) can be combined.

Coordinators from the partner country are requested to submit their proposals to the respective funding organisation in the partner country (http://www.dfg.de/internationals/internationale partner/liste.html).

1 Bilateral Events

The module bilateral events serve to facilitate collaboration between researchers and to expand scientific contact. Funding can be provided within the framework of general cooperation agreements or, in individual cases, for agreements relating to the specific event, as agreed by the cooperating international partners.

1.1 Bilateral Events held in Germany

If your proposal is reviewed favourably, supplemental funding may be granted for the following items:

- Domestic travel within Germany and maintenance (per diem allowance) for participants from Germany according to the German Travel Expenses Act (Bundesreisekostengesetz, BRKG);
- Lodging for participants from Germany according to the BRKG;
- Maintenance for Indian participants, provided that these are not paid by the partner organisation;
- In justified, exceptional cases, maintenance and international travel for participants from other countries;
- Excursion expenses after the scientific event;
- Events costs, such as copying expenses for flyers/conference materials (a printing allowance to publish conference proceedings cannot be granted), catering services, carrying out conference-related events;

- Employment of conference assistants (up to € 1.000);
- In justified cases, costs for an interpreter.

1.2 Bilateral Events held in the Partner Country

If your proposal is reviewed favourably, supplemental funding may be granted for the following items:

- International travel for participants from Germany, as well as additional costs such as visa expenses (€ 100 lump sum);
- Maintenance allowances for participants from Germany, provided that these are nor covered by the partner organisation, according to the Foreign Travel Expenses Ordinance (*Auslandsreisekostenverordnung,* ARV);
- Excursion expenses for German researchers following th*e event.*

2 Research Stays

The cooperation agreements between the DFG and its Indian partner organisations offer the possibility of funding preparatory visits (up to three weeks) or consultative visits (up to three months) at the respective partner's institute. It is necessary to submit a written invitation from the host.

As to travelling abroad, supplemental funding may be granted for international travel and, if necessary, transportation costs, maintenance allowances (provided that these are not covered by the partner organisation) plus visa and additional expenses (€ 100 lump sum). As to invitations to international partners to Germany, supplemental funding may be granted for maintenance and, in justified cases, also for international travel costs.

3 Proposal Format

The German coordinator is responsible for submitting the complete proposal (one paper copy) using the form "Proposal Summary" (LINK), managing the funds and reporting to the DFG. The proposal should include the following information:

- a brief description of the overall concept of the project, demonstrating its potential for establishing a long-term cooperation;
- the applicant's CV and list of publications;
- a brief description of the state of the art in the relevant field;
- a budget estimate, making use of special rates and arrangements (economy class).

<u>Additionally, for the module bilateral events:</u>

- the scientific objectives of the bilateral event;
- a list of proposed participants from Germany, including their complete work addresses and contribution topics (please enclose abstracts);
- a scientific programme.

Additionally, for the module research stays:

- an outline of the proposal;
- a working plan for the period to be funded, demonstrating in which way the research stay is expected to enhance the research output of the partners;
- a written invitation from the host;
- for the invitation to the Indian partner for the same purpose, the proposal must include the following information:
    - Title, full name, date of birth of the Indian partner
    - Field of research, position, institute (exact name), official address, country
    - List of the most important publications of the visiting researcher
    - Duration of visit, exact date of expected beginning of visit
    - Former visits of the visiting researcher to Germany, mode of funding.
    -

Please allow an average of two to three months to process your proposal.

4 Obligations

In submitting a proposal to the DFG, you agree to:

1. adhere to the **rules of good scientific practice**.[1]
   In cases of scientific misconduct, the DFG may impose sanctions. Scientific misconduct is defined as the intentional and grossly negligent statements of falsehoods in a scientific context, the violation of intellectual property rights or impeding another person's research work. The circumstances of each case will be considered on an individual basis.

Depending on the nature and extent of the misconduct exposed, the DFG may:

- issue a written reprimand to the person involved;
- exclude those found responsible from the right to apply for DFG funds for a period of one to eight years, depending on the severity of the scientific misconduct;
- revoke funding decisions (completely of partially revoke approvals and demand the return of authorized funds or the repayment of funds spent);
- demand that those concerned either retract the publications containing false data, correct the false data (by publishing an erratum) or include a reference regarding the DFG's retraction of funds in the relevant publication;
- exclude those found responsible from acting as a reviewer or from membership on DFG committees;
- deny those responsible the right to vote in DFG elections.

[1]The rules of good scientific practice are presented in detail in the white paper "Proposals for safeguarding Good Scientific practice" (published by WILEY-VCH) and in the Usage Guidelines for Research Grants, DFG forms 2.01 and 2.02 (available on the internet at http://www.dfg.de/en/research_funding /forms/index/html or under "Proposal Process"). They are based on the recommendations of an international commission on self-regulation in science and on a decision by the DFG's General Assembly, endorsed by the German Rector's Conference, dated 17 June 1998. According to a decision made by the General Assembly on 4 July 2001, from 1 July 2002 onwards, research institutions that have not implemented the rules of good scientific practice, or do not abide by them, will not be eligible to apply or receive DFG funding.

2. Devote the funds granted exclusively to the expeditious realisation of the research project supported by the grant. Therefore the **use** and **accounting of funds** must conform to the relevant regulations of the DFG.

3. Submit **progress reports on the research** according to the dates specified in the award letter and to present financial accounts to the DFG detailing the use of the funds granted.

Proposal Summary

Funding for the Initiation and Enhancement of Bilateral Cooperation

Applicant: *Name (title), institute, university, address, tel. / fax, email, date of birth,* *DFG basic file number (if any)*	
Co-applicant (*if any*) *Name (title), institute, university, address, tel./fax, email,* *date of birth*	
Cooperation partner: *Name (title), institute, university, address, Tel./Fax, email, date of birth*	
Within the framework of the cooperation agreement with	**INSA-DFG PROGRAMME FOR THE INITIATION AND INTENSIFICATION OF INDO-GERMAN BILATERAL COOPERATION**
Field of Research:	
Subject:	
Supplemental Funding applied for *(please givenumber of planned activities)*	-Research stay(s) in the partner country: -Research stay(s) in Germany: -Bilateral Event(s);

Financial Plan: **Research Stay(s)** -in the partner country: -in Germany: **Bilateral Event(s)** -in Germany -in India	 Duration: *(days or months (in total))* Estimated total amount: € Duration: *(days or months (in total))* Estimated total amount: € Estimated total amount: € Estimated total amount: €
Project Duration:	