

TWAS Fellowships for Postdoctoral Research

PROGRAMME DETAILS

TWAS, the academy of sciences for the developing world – www.twas.org – is an autonomous international organization founded in Trieste, Italy, in 1983. TWAS represents the best of science in the developing world. Its principal aim is to promote scientific capacity and excellence for sustainable development in the South. Since 1986, TWAS has been supporting scientists and institutions in developing countries through a wide range of programmes that focus on scientific capacity building largely through South-South cooperation.

The administration and financial operation of TWAS is undertaken by UNESCO in accordance with an agreement signed by the two organizations.

Each year, the TWAS Fellowship Programme, which operates under agreements with governments and national organizations in developing countries – and particularly with partners in Brazil, China, India, Malaysia, Mexico and Pakistan – offers a number of fellowships to young scientists from developing countries to carry out postdoctoral research in countries other than their own.

These partners include:

National Council for Scientific and Technological Development (CNPq), Brazil

The **TWAS-CNPq Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than Brazil) who wish to pursue postdoctoral research in the natural sciences in Brazil. *Duration: minimum of six months to a maximum of twelve months.*

Chinese Academy of Sciences (CAS), China

The **TWAS-CAS Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than China) who wish to pursue postdoctoral research in China. *Duration: minimum of six months to a maximum of twelve months.*

Council of Scientific and Industrial Research (CSIR), India

The **TWAS-CSIR Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than India) who wish to pursue postdoctoral research in newly emerging areas in science and technology for which facilities are available in CSIR laboratories and institutes. *Duration: minimum of six months to a maximum of twelve months.*

Department of Biotechnology (DBT) of the Ministry of Science and Technology, India

The **TWAS-DBT Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than India) who wish to pursue postdoctoral research in biotechnology at key biotechnology research institutions in India. *Duration: minimum of twelve months to a maximum of eighteen months.*

NEW! S.N. Bose National Centre for Basic Sciences, India

The **TWAS-S.N. Bose Fellowship Programme for Postdoctoral Research** offers fellowships to students from developing countries (other than India) who wish to pursue postdoctoral research in the physical sciences. *Duration: minimum of six months to a maximum of twelve months.*

Indian Association for the Cultivation of Science (IACS), India

The **TWAS-IACS Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than India) who wish to pursue postdoctoral research in certain fields of natural sciences, including biological chemistry, condensed matter physics, inorganic chemistry, materials science, non conventional energy, organic chemistry, physical chemistry, polymer science, spectroscopy and theoretical physics. *Duration: minimum of six months to a maximum of twelve months.*

Universiti Sains Malaysia (USM), Malaysia

The **TWAS-USM Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than Malaysia) who wish to pursue postdoctoral research in one of the fields of natural sciences. *Duration: minimum of twelve months to a maximum of three years.*

NEW! National Council on Science and Technology (CONACYT), Mexico

The **TWAS-CONACYT Fellowship Programme for Postdoctoral Research** offers fellowships to students from developing countries (other than Mexico) who wish to pursue postdoctoral research in one of the fields of natural sciences. *Duration: minimum six months and maximum twelve months.*

National Centre of Excellence in Molecular Biology (CEMB), Pakistan

The **TWAS-CEMB Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than Pakistan) who wish to pursue postdoctoral research in molecular biology and molecular genetics. *Duration: minimum of six months to a maximum of twelve months.*

International Center for Chemical and Biological Sciences (ICCBS), Pakistan

The **TWAS-ICCBS Fellowship Programme for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than Pakistan) who wish to pursue postdoctoral research in organic chemistry, biochemistry, biotechnology, molecular medicine, pharmacology or physical chemistry. *Duration: minimum of six months to a maximum of twelve months.*

NEW! The National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand

The **TWAS-BIOTEC Fellowship for Postdoctoral Research** offers fellowships to young scientists from developing countries (other than Thailand) who wish to pursue postdoctoral research in the field of molecular biology, molecular genetics, microbiology, biochemistry, biotechnology, bioinformatics or related disciplines. *Duration: minimum of twelve months to a maximum of twenty-four months.*

Summary of research fields covered by each programme:

Programme	Agricultural sciences	Biology	Chemistry	Earth sciences	Engineering sciences	Mathematics	Medical sciences	Physics
CNPq, Brazil	√	√	√	√	√	√	√	√
CAS, China	√	√	√	√	√	√	√	√
CSIR, India	√	√	√	√	√	√	√	√
DBT, India	√	√	√	√	-	-	√	√
SN Bose, India	-	-	√	-	-	√	-	√
IACS, India	-	√	√	-	√	√	-	√
USM, Malaysia	√	√	√	-	√	√	√	√
CONACYT, Mexico	√	√	√	√	√	√	√	√
CEMB, Pakistan	√	√	-	-	-	-	√	-
ICCBS, Pakistan	√	√	√	-	-	-	√	-
BIOTEC, Thailand	√	√	√	-	-	-	√	-

√ = Fellowship offered in this subject area;

- = Fellowship NOT offered in this subject area.

IMPORTANT NOTES

Applicants should apply to only one TWAS Fellowship Programme per year, choosing the most suitable programme for his/her needs. This applies to the following fellowship programmes: CAS (China), CNPq (Brazil), CEMB, ICCBS (Pakistan), IACS, DBT, CSIR and S.N. Bose (India), USM (Malaysia), CONACYT (Mexico), BIOTEC (Thailand) and Research & Advanced Training fellowships.

Applicants for TWAS Fellowships for Research and Advanced Training should download the relevant application form (see www.twas.org under the 'Programmes' tab or request it from fellowships@twas.org).

GENERAL INFORMATION

Please check the eligibility criteria carefully, especially the age restrictions, timing of the start of the Fellowship and deadline for the submission of applications. See specific 'Additional information' sections for specific information regarding each programme. Remember, you can apply for only one Fellowship programme per year.

- Applicants must be regularly employed in a developing country (other than the one they intend to visit) and hold a research assignment there.
- Applicants already on site in the host country are **not** eligible.
- Women scientists are especially encouraged to apply.
- International travel (return economy class by the shortest route) and visa expenses will be covered by TWAS.
- Programme partners will provide a stipend to cover living expenses, in some cases including health insurance. If health insurance is not provided by the programme partner, obtaining suitable health insurance is the awardee's own responsibility and will be at his/her own expense.
- All specific obligations, regulations, stipends etc will be thoroughly explained to successful candidates in the award letter/contract.
- Applicants must provide evidence that they will return to their home country upon completion of their Fellowships.
- Applicants **must submit an official Acceptance Letter from the host institution** (see sample on page 11) to TWAS (in all cases) and to the relevant programme partner organization (except in the case of DBT, S.N. Bose, India; CONACYT, Mexico and ICCBS, Pakistan) when applying, or by the deadline at the latest.
- The Fellowships do not include provisions for accompanying family members.
- Applications for part-time Fellowships will be considered **ineligible**.
- Incomplete/unsigned applications will **not** be accepted. This also applies to submissions by fax and electronic mail, which must include all enclosures and be signed (either digitally or by including a scanned signature).
- Successful applicants must not take up other assignments during the period of their Fellowships.
- Applications will be acknowledged once they have been processed.
- **Successful candidates will be notified by February of the year following the application.**
- TWAS shall be entitled to a repayment of all or part of any funds paid to an applicant hereunder, in the event that the applicant intentionally or negligently fails to fulfil any or all of the present conditions. The applicant agrees to pay any reasonable legal and/or collection costs incurred by TWAS to obtain the repayment.

DEADLINES

Note that the deadlines for the various Fellowship Programmes vary as follows:

CSIR, India	IACS, India	CEMB, Pakistan	ICCBS, Pakistan	CONACYT, Mexico	CNPq, Brazil	CAS, China	DBT, India	SN Bose, India	USM, Malaysia & BIOTEC, Thailand
1 June	30 June	30 June	30 June	1 July	31 August	31 August	31 August	31 August	15 September

APPLICATION FORM

BEFORE SENDING YOUR APPLICATION:

This a Microsoft Word document and should be completed, saved and returned as a Word document and NOT as a PDF document or embedded jpeg.

Please save the completed application form as an MS Word document with both your surname and the Fellowship's acronym in its file name. Example: If your name is John DOE, name the file "DOE_CNPqPDoc" or "Doe_CASPDdoc.doc" as appropriate.

To which TWAS Postdoctoral Fellowship Programme does this application apply? (Please tick one box only)		
<input type="checkbox"/> TWAS-CNPq (Brazil) <input type="checkbox"/> TWAS-CAS (China) <input type="checkbox"/> TWAS-CSIR (India) <input type="checkbox"/> TWAS-DBT (India)	<input type="checkbox"/> TWAS-SN Bose (India) <input type="checkbox"/> TWAS-IACS (India) <input type="checkbox"/> TWAS-USM (Malaysia) <input type="checkbox"/> TWAS-CONACYT (Mexico)	<input type="checkbox"/> TWAS-CEMB (Pakistan) <input type="checkbox"/> TWAS-ICCBS (Pakistan) <input type="checkbox"/> TWAS-BIOTEC (Thailand)
For our records, please also indicate the scientific field in which you work. (Please tick one box only)		
<input type="checkbox"/> Agricultural Sciences <input type="checkbox"/> Structural, Cell. & Molecular Biology <input type="checkbox"/> Biological Systems & Organisms	<input type="checkbox"/> Medical & Health Sciences, including Neurosciences <input type="checkbox"/> Chemical Sciences <input type="checkbox"/> Engineering Sciences	<input type="checkbox"/> Astronomy, Space & Earth Sciences <input type="checkbox"/> Mathematical Sciences <input type="checkbox"/> Physics

GENERAL INFORMATION

Please remember to attach a photo of yourself and send a copy of your passport, even if expired. Only the page with personal details is required.

Surname (family name):		First name(s):	Attach passport-size photo
Gender: Male <input type="checkbox"/> Female <input type="checkbox"/>		Passport No:	
Nationality:		Date and place issued:	
Date of birth:		Expiry date:	
Place of birth (country):			
Applicant's contact address:		Name and contact details of a person to be contacted in case of an emergency:	
Tel:		Tel:	
Fax:		Fax:	
E-Mail:		E-Mail:	
Accompanying dependents. NB: The Fellowships do not provide support for family members			
Name	Relationship (mother, son...)	Period of stay	

FELLOWSHIP DETAILS

HOST INSTITUTION		
<p>Ensure you indicate the name and address of at least one HOST research institution where you have applied and have been accepted to do your postdoctoral research (depending on the programme). Please attach official letter of acceptance signed by the head of the department or the postgraduate programme coordinator at the host institution. Note: Applications to the TWAS-CNPq programme should also note the CAPES level of the institute (5, 6 or 7).</p>		
1. Host institute, Name and Address:		
Tel:	Fax:	E-mail:
Name and Surname of Host supervisor:	Position:	E-mail:
Reasons for selecting this institution and supervisor:		
2. Host institute, Name and Address:		
Tel:	Fax:	E-mail:
Name and Surname of Host supervisor:	Position:	E-mail:
Reasons for selecting this institution and supervisor:		
HOME INSTITUTION		
Name and Address of home institution:		
Tel:	Fax:	E-mail:
Name and position of supervisor in your home country.		
Name:	Surname:	Position:

RESEARCH DETAILS

Area of proposed research/study
Research proposal. Please provide a detailed description of the proposed doctoral study/research plan.
Title:
Project details (Use separate sheet, if necessary)
Expected benefits. Please provide a short account of the benefits the Fellowship will provide to you and your home institution.

Applicant's acceptance of conditions governing the relevant TWAS Postdoctoral Fellowships Programme. *Please note that unsigned applications cannot be accepted. If you are unable to send a scanned version via e-mail, please send the page with the signatures by fax.*

I accept the terms and conditions governing these Fellowships and I confirm that I shall return to my home country upon completion of my Fellowship.

Signature : Date:

PLEASE ONLY RETURN THE COMPLETED PAGES AND THE FOLLOWING ENCLOSURES

ENCLOSURES CHECKLIST

Important: Ensure that ALL relevant enclosures are included with the completed application form!

- Passport size photograph as a separate JPEG file.
- A copy of passport, even if expired. Only the page with personal details is required.
- Curriculum Vitae and complete list of publications (do not send papers).
- University degree certificates and relevant university transcripts of advanced courses for all academic degrees.
- Official letter of acceptance from the supervisor or head of department of a HOST institution.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and the relevant programme partner (except in the case of DBT, S.N. Bose, India; CONACYT, Mexico and ICCBS, Pakistan: see "Additional information"). The subject line must contain the name of the Fellowship programme and the candidate's surname. Alternatively, letters should be sent in sealed envelopes by post.
- Supporting statement from the head/director of the applicant's HOME institute on headed paper.
- Certificate of proficiency in English or language of country to be visited.
- Certificate of good health from a qualified medical doctor (for ICCBS only).

OTHER INFORMATION

How did you find out about TWAS Fellowship Programmes? (Please choose one only)

- Direct mailing [to institution].
- TWAS website.
- Word of mouth/email from colleague.
- Other (please specify):

END OF APPLICATION FORM

SAMPLE ACCEPTANCE LETTER FOR HOST INSTITUTIONS

It is important to note that applicants **MUST** already be accepted by a host institution in Brazil, China, India, Malaysia, Mexico or Pakistan to be eligible for a TWAS Postdoctoral Fellowship.

How to obtain the preliminary acceptance letter:

- 1) Identify a suitable host institution from the lists provided (see following pages).
- 2) Contact your selected host institution or a potential host supervisor, providing your CV, research proposal and a copy of the sample acceptance letter (see below).

Signed acceptance letters must be sent to TWAS and the relevant programme partner (except in the case of DBT, S.N. Bose, India; CONACYT, Mexico and ICCBS, Pakistan). The head of department or the coordinator of postgraduate studies at the HOST institution must sign the letter. Informal communication exchanged with potential host supervisors can be submitted, but it will **not** be considered as formal evidence of institutional acceptance.

HOST INSTITUTION'S LETTERHEAD

Department's name
 Institutional address
 Tel and fax numbers
 E-mail address

[Place and Date]

Dear _____ [candidate's name and surname] - _____ [country of citizenship],

This is to inform you that, as a candidate for a postdoctoral fellowship under the agreement established by TWAS and _____ [programme partner], you have been accepted for a _____ [length of time, months] postdoctoral programme in _____ [field of specialization/academic programme], at this department/institution.

If subsequently selected for a TWAS-_____ [programme partner] Fellowship, you should begin your studies/research in the _____ [month and year following year of application] and expect to conclude by _____ [month and year]. While researching at this institution, you will be under the supervision of Professor _____ [name and surname of supervisor]. The topic for which you have been accepted to study at this institution is:

_____.

Yours sincerely,

Signature and name of head of department
 or postgraduate studies coordinator

N.B. The letter cannot be accepted without a signature.

Additional information: TWAS-CNPq, Brazil

TWAS-CNPq Postdoctoral Fellowship Programme Deadline: 31 August

Programme Details

- TWAS-CNPq Postdoctoral Fellowships are tenable at research institutions in Brazil for a minimum period of six months to a maximum period of twelve months. They are awarded to scientists from developing countries (other than Brazil) to enable them to pursue postdoctoral research in the natural sciences.
- For the complete list of eligible institutions/programmes (CAPES-Conceito 5, 6 and 7) under CNPq, refer to the worksheet that you can download from www.twas.org under the 'Programmes' tab.
- CNPq will provide a standard monthly allowance which should be used to cover living costs, such as accommodation, food and health insurance. The monthly stipend will not be convertible into foreign currency.
- Information about living conditions, such as possibilities of accommodation, transportation, and any other issues related to the candidate's stay in Brazil must be obtained locally, directly from the host institution. Neither TWAS nor CNPq can provide this information.
- The research activities are developed in Portuguese in most institutions, but communication will be mainly in English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 40 years on 31 December of the application year;
- be nationals of a developing country (other than Brazil);
- hold a PhD degree in a field of the natural sciences;
- be regularly employed in a developing country (other than Brazil) and hold a research assignment there;
- provide an official Acceptance Letter from the host institution (see sample Acceptance Letter, page 11) Only CAPES-listed (levels 5, 6 or 7) Brazilian institutions are eligible. (see Programme Details above);
- prove knowledge of Portuguese or provide a certificate of proficiency in Spanish or English (if these languages are not the candidate's mother tongue).

Submitting your application

The deadline for receipt of applications is **31 August** of each year.

- Applicants should submit the Acceptance Letter from a CAPES-listed institution to CNPq and TWAS when applying or by the deadline at the latest. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and CNPq. The subject line must contain: CNPq/PDoc/ candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-CNPq Postdoctoral Fellowship Programme** should send their application to TWAS and CNPq.

CONTACT DETAILS

TWAS Fellowships Office
ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240 314
Fax: +39 040 2240 689
E-mail: fellowships@twas.org

**National Council for Scientific and
Technological Development - CNPq**
International Cooperation Office
SEPN 507, Bloco "B", Sala 303
Ed. Sede CNPq
70740-901 Brasília, DF, Brazil
Tel: +55 61 2108 9440
Fax: +55 61 2108 9442
E-mail: twas.ascin@cnpq.br

Additional information: TWAS-CAS, China

TWAS-CAS Postdoctoral Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-CAS Postdoctoral Fellowships in natural sciences are tenable for a minimum period of six months to a maximum period of twelve months at the research institutions of the Chinese Academy of Sciences.
- **Eligible CAS institutions:** More than 80 CAS institutes in China participate in this Fellowship programme. For a complete list please see: www.twas.org.cn and, in particular, english.cas.ac.cn/eng2003/dmk01a/institutes.asp.
- CAS will provide a standard monthly allowance which should be used to cover living costs, such as accommodation, food and health insurance. Only emergency medical aid will be available, if needed. The monthly stipend will not be convertible into foreign currency.
- The language of instruction is English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 40 years on 31 December of the application year;
- be nationals of a developing country (other than China);
- hold a PhD degree in a field of the natural sciences;
- be regularly employed in a developing country (other than China) and hold a research assignment there;
- be accepted at a CAS-listed institution participating in the scheme and provide an official acceptance letter from the host institution (see sample Acceptance Letter, page 11) to this effect; and
- provide evidence of proficiency in English or Chinese.

Submitting your application

- The deadline for receipt of applications is **31 August** of each year.
- Applicants should submit the acceptance letter from a CAS institution to CAS and TWAS when applying or by the deadline at the latest. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and CAS. The subject line must contain: CAS/PDoc/ candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-CAS Postdoctoral Fellowship Programme** should send their application to TWAS and CAS.

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ICTP campus, Strada Costiera 11
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E-mail: fellowships@twas.org

TWAS Beijing Office
Bureau of International Cooperation
Chinese Academy of Sciences
52 Sanlihe Road
100864 Beijing, China
Tel: +86 10 6859 7220
Fax: +86 10 6859 7543
E-mail: sqfu@cashq.ac.cn

Additional information: TWAS-CSIR, India

TWAS-CSIR Postdoctoral Fellowship Programme

Deadline: 1 June

Programme details

- TWAS-CSIR Postdoctoral Fellowships are tenable in CSIR research laboratories and institutes in India for a minimum period of six months to a maximum period of twelve months.
- **Eligible CSIR institutions:** Information on CSIR laboratories and institutes can be obtained by following the links from the CSIR homepage (www.csir.res.in), see under "About CSIR" and then "CSIR Directory".
- CSIR will provide a monthly stipend to cover for living costs, food and health insurance. The monthly stipend will not be convertible into foreign currency. In addition, Fellowship awardees are entitled to subsidized accommodation.
- The language of instruction for foreign scholars in CSIR laboratories/institutes is English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 45 years on 31 December of the application year;
- be nationals of a developing country (other than India);
- hold a PhD in one of the fields of science or technology;
- be regularly employed in a developing country (other than India) and hold a research assignment there;
- be accepted at a CSIR laboratory/institution and provide an official Acceptance Letter from the host institution (see sample Acceptance Letter, page 11 to this effect);
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is ~~1 June of each year~~ **now extended to 1 July 2009**.
- Applicants should submit the acceptance letter from a CSIR institution to CSIR and TWAS when applying or by the deadline at the latest. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and CSIR. The subject line must contain: CSIR/PDoc/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-CSIR Postdoctoral Fellowship Programme** should be sent to TWAS and CSIR (by post, fax or email).

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TWAS Fellowships Office

ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240 314
Fax: +39 040 2240 689
E-mail: fellowships@twas.org

Mr. Pramod Bhushan, Scientist
Council Of Scientific & Industrial Research (CSIR)
Int. S&T Affairs Directorate
Anusandhan Bhavan - 2 Rafi Marg
New Delhi 110 001, India
Tel: +91 11 2331 6742
Fax: +91 11 2373 9041, 2371 0618
E-mail: pbhushan@csir.res.in

Additional information: TWAS-DBT, India

TWAS-DBT Postdoctoral Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-DBT Postdoctoral Fellowships are tenable at key biotechnology research institutions in India for a minimum period of twelve months to a maximum period of eighteen months.
- To help candidates in their choice of a suitable host institution a list of biotechnology institutes in India is available for download from www.twas.org under the 'Programmes' tab. However, candidates are free to choose an Indian biotechnology institution that does not appear on the list.
- DBT will provide a monthly stipend to cover for living costs, food and health insurance. The monthly stipend will not be convertible into foreign currency. In addition, the fellowship holder will receive a house rent allowance.
- The language of instruction is English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be a maximum age of 40 years on 31 December of the application year;
- be nationals of a developing country (other than India);
- hold a PhD degree in bioscience or biotechnology;
- be regularly employed in a developing country (other than India) and hold a research assignment there;
- be accepted at a biotechnology institution in India (see sample Acceptance Letter, page 11); and
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **31 August** each year.
- Applicants should submit the Acceptance Letter from an Indian biotechnology institution to TWAS when applying or by the deadline at the latest. Applicants will have until the deadline to submit the Acceptance Letter to TWAS. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letter: Referees must send signed letters as attachments via e-mail directly to TWAS. The subject line must contain: DBT/PDoc/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-DBT Postdoctoral Fellowship Programme** should be sent to TWAS only (by post, fax or email).

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E-mail: fellowships@twas.org

Additional information: TWAS-S.N. Bose, India

TWAS-S.N. Bose Postdoctoral Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-S.N. Bose Postdoctoral Fellowships are tenable at the S.N. Bose National Centre for Basic Sciences in Kolkata, India – www.bose.res.in – for studies towards postdoctoral research in the physical sciences for a minimum period of six months to a maximum period of twelve months.
- **Research areas** carried out include:
 - Electronic structure and physics of materials.
 - Soft condensed matter, complex systems and statistical physics;
 - High energy physics and mathematical physics;
 - Optics, mesoscopic phenomena and chemical physics;
 - Astrophysics;
 - Biophysics
 - Experimental physics: magnetism, in particular manganites, Birkhaussen effect, Mössbauer spectroscopy, superconductivity, mechanical stress-strain relaxation, dielectric spectroscopy in the nano and pico time scales, as well as noise measurements in terms of resistance fluctuation spectroscopy;
 - Nanoscience and technology: Synthesis of nanomaterials; physical measurements using scaling probe microscopy; mesoscopic phenomena; electronic structure and modelling; nanolithography; nanobiophysics;
 - Theoretical chemistry: Density functional theory, quantum fluid dynamics and applications; atoms/molecules under intense or super-intense laser fields; atoms/molecules under strong magnetic fields; quantum chaos; computational quantum chemistry (novel molecules, nanoclusters, biomolecules, drug-DNA interaction modelling); theoretical spectroscopy and relaxation phenomena; simulation studies and non-equilibrium thermodynamics.
- S.N. Bose will provide a monthly stipend to cover living costs, food and health insurance. The monthly stipend will not be convertible into foreign currency. Free on-campus accommodation will be provided.
- The language of instruction is English.

Eligibility

Candidates for these fellowships must meet the following criteria:

- be a maximum age of 45 years on 31 December of the application year;
- be nationals of a developing country (other than India);
- be regularly employed in a developing country (other than India) and hold a research assignment there;
- hold a PhD degree in physics, mathematics or physical chemistry;
- be accepted by a department of the S.N. Bose National Centre. Requests for acceptance must be directed to Prof. A. Mookerjee, Senior Professor & Dean (Faculty) by e-mail (abhijit@bose.res.in) (see sample Acceptance Letter, page 11). In contacting Prof. Mookerjee, applicants must accompany their request for a preliminary acceptance letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **31 August** each year.
- Applicants must submit an Acceptance Letter from a department of the S.N. Bose National Centre when applying, or by the deadline at the latest. Without preliminary acceptance the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS. The subject line must contain: Bose/PDoc/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-SN Bose Postdoctoral Fellowship Programme** should be sent to TWAS only (by post, fax or email).

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ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240 314
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For information purposes only:
Prof. Abhijit Mookerjee
Senior Professor & Dean (Faculty)
Head, Materials Science Department
S.N. Bose National Centre for Basic Sciences
Kolkata 700098, India
Tel : +91 33 2335 5706/7/8
Fax : +91 33 2335 3477
E-mail: abhijit@bose.res.in

Additional information: TWAS-IACS, India

TWAS-IACS Postdoctoral Fellowship Programme

Deadline: 30 June

Programme Details

- TWAS-IACS Postdoctoral Fellowships are tenable at the Indian Association for the Cultivation of Science (IACS) – www.iacs.res.in – for a minimum period of six months to a maximum period of twelve months in the following fields:
 - Theoretical physics;
 - Condensed matter physics;
 - Spectroscopy;
 - Materials science;
 - Non-conventional energy;
 - Physical chemistry;
 - Organic chemistry;
 - Inorganic chemistry;
 - Biological chemistry;
 - Polymer science.
- IACS will provide a monthly stipend which should be used to cover living costs such as food, accommodation and health insurance. The monthly stipend will not be convertible into foreign currency. Free on-campus accommodation will be provided.
- The language of instruction is English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 40 years on 31 December of the application year;
- hold a PhD degree in a field of natural sciences;
- be nationals of a developing country (other than India);
- be regularly employed in a developing country (other than India) and hold a research assignment there;
- must submit an Acceptance Letter from a department of the Indian Association for the Cultivation of Science (IACS) (see sample Acceptance Letter, page 11);
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **30 June** of each year.
- Applicants must submit an Acceptance Letter from a department of the Indian Association for the Cultivation of Science (IACS) when applying, or by the deadline at the latest. Without preliminary acceptance the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and IACS. The subject line must contain: IACS/PDoc/candidate's surname. Alternatively, reference letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-IACS Postdoctoral Fellowship Programme** should send a copy of their application both to TWAS **and** IACS (hard copy only).

CONTACT DETAILS

TWAS Fellowships Office

ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240 314
Fax: +39 040 2240 689
E-mail: fellowships@twas.org

International Relations Cell

Indian Association for the Cultivation of Science (IACS)
2A&B Raja S.C. Mullick Road, Jadavpur
Kolkata - 700 032, India
Fax: +91 33 2483 6561
E-mail: irc@iacs.res.in; drgr@iacs.res.in

Additional information: TWAS-USM, Malaysia

TWAS-USM Postdoctoral Fellowship Programme

Deadline: 15 September

Programme Details

- TWAS-USM Postdoctoral Fellowships are tenable in the departments, institutions and laboratories of the Universiti Sains Malaysia – www.ips.usm.my – for a minimum period of twelve months to a maximum period of three years and are awarded to young scientists from developing countries (other than Malaysia) to enable them to pursue advanced research in the natural sciences.
- USM will provide a standard monthly allowance which should be used to cover living costs, such as accommodation, food and health insurance.
- The language of instruction is English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be nationals of a developing country (other than Malaysia);
- hold a PhD degree in a field of the natural sciences;
- apply for the fellowship within five years of having obtained a PhD degree in a field of the natural sciences;
- be regularly employed in a developing country (other than Malaysia) and hold a research assignment there;
- provide an official Acceptance Letter from a department, laboratory or institute at USM (see sample Acceptance Letter, page 11). Requests for acceptance must be directed to the Dean, Institute of Graduate Studies, USM, Prof. R. Hashim by e-mail (roshada@usm.my) who will facilitate assignment of a host supervisor. In contacting Prof. Hashim applicants **must** accompany their request for a preliminary acceptance letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **15 September** of each year.
- Applicants should submit the acceptance letter from a USM department/laboratory to TWAS and USM when applying or by the deadline at the latest. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachment via e-mail directly to TWAS and USM. The subject line must contain: USM/ PDoc/the candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-USM Postdoctoral Fellowship Programme** should send their application to TWAS and USM.

CONTACT DETAILS

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Fax: +39 040 2240 689

E-mail: fellowships@twas.org

Prof. Roshada Hashim

Dean

Institute of Graduate Studies

Universiti Sains Malaysia (USM)

11800 Penang, Malaysia

Tel: +604 6532 930

Fax: +604 6532 931

Email: roshada@usm.my

Additional information: TWAS-CONACYT, Mexico

TWAS-CONACYT Postdoctoral Fellowship Programme Deadline: 1 July

Programme Details

- TWAS-CONACYT Postdoctoral Fellowships are tenable at eligible institutions of higher education and research in Mexico for a minimum period of six to a maximum period of twelve months and are awarded to young scientists from developing countries (other than Mexico) to enable them to pursue advanced research in the natural sciences and related fields.
- For the complete list of eligible institutions/programmes under CONACYT, refer to the worksheet that you can download from www.twas.org under the 'Programmes' tab.
- CONACYT will provide a standard monthly allowance which should be used to cover living costs, such as accommodation and food.
- CONACYT will also provide a fixed amount for mandatory health insurance coverage.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 40 years on 31 December of the application year;
- be nationals of a developing country (other than Mexico);
- hold a PhD degree in a field of the natural sciences;
- be regularly employed in a developing country (other than Mexico) and hold a research assignment there;
- provide an official Acceptance Letter from the host institution (see sample Acceptance Letter, page 11) from an eligible institution in Mexico;
- prove knowledge of Spanish or provide a certificate of proficiency in English (if these languages are not the candidate's mother tongue).

Submitting your application

- The deadline for receipt of applications is 1 July every year.
- Applicants should submit the acceptance letter from an eligible Mexican host institution to TWAS when applying or by the deadline at the latest. Without preliminary acceptance, the application will not be considered for selection.
- Reference letters: Referees must send signed letters as attachment via e-mail directly to TWAS. The subject line must contain: CONACYT/PDoc/the candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-CONACYT Postdoctoral Fellowship Programme** should send their application only to TWAS.

CONTACT DETAILS

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ICTP campus, Strada Costiera 11
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Tel: +39 040 2240 314
Fax: +39 040 2240 689
E-mail: fellowships@twas.org

For information purposes only:
CONACYT Fellowships Office
Insurgentes Sur 1582-1er. piso
Col. Crédito Constructor, Benito Juárez
Mexico, D.F., 03940 MEXICO
Tel.: +52 555 3228 149
E-mail: twas-conacyt@conacyt.mx

Additional information: TWAS-CEMB, Pakistan

TWAS-CEMB Postdoctoral Fellowship Programme

Deadline: 30 June

Programme Details

- TWAS-CEMB Postdoctoral Fellowships are tenable at departments of the National Centre of Excellence in Molecular Biology (CEMB) – www.cemb.edu.pk/cemb.asp – for a minimum period of six months to a maximum period of twelve months in the following fields: molecular biology, molecular genetics, plant molecular biology or medical molecular biology.
- CEMB will provide a monthly stipend which should be used to cover living costs such as food, accommodation and health insurance. The monthly stipend will not be convertible into foreign currency.
- The language of instruction is English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be a maximum age of 45 years on 31 December of the year of application;
- be nationals of a developing country (other than Pakistan);
- be regularly employed in a developing country (other than Pakistan) and hold a research assignment there;
- hold a PhD degree in a field of natural sciences;
- provide an official Acceptance Letter from the supervisor or head of department at CEMB (see sample Acceptance Letter, page 11);
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **30 June** of each year.
- Applicants must submit an Acceptance Letter from CEMB when applying, or by the deadline at the latest. Without preliminary acceptance the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS and CEMB and the subject line must contain: CEMB/PDoc/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes. Alternatively, letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-CEMB Postdoctoral Fellowship Programme** should send a copy of their application (by email, fax or post) to TWAS **and** to CEMB (hard copy only).

CONTACT DETAILS

TWAS Fellowships Office

ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240 314
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E-mail: fellowships@twas.org

Dr. Shaheen N. Khan

Professor

National Centre of Excellence in Molecular Biology (CEMB)

87 West Canal Bank Road, Thokar Niaz Baig
Lahore 53700, Pakistan
Tel: +92 42 529 3148
Fax: +92 42 516 4155, 42 5293 149
Email: camb1@wol.net.pk, director@cemb.edu.pk

Additional information: TWAS-ICCBS, Pakistan

TWAS-ICCBS Postdoctoral Fellowship Programme

Deadline: 30 June

Programme Details

- TWAS-ICCBS Postdoctoral Fellowships are tenable at the International Center for Chemical and Biological Sciences (ICCBS) – comprising the H.E.J. Research Institute of Chemistry and the Dr. Panjwani Center for Molecular and Drug Research, www.iccs.edu – for a minimum period of six months to a maximum period of twelve months in the following fields: organic chemistry, biochemistry, biotechnology, molecular medicine, pharmacology or physical chemistry.
- ICCBS will provide a monthly stipend which should be used to cover living costs such as food, accommodation and health insurance. The monthly stipend will not be convertible into foreign currency.
- The language of instruction is English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be a maximum age of 45 years on 31 December of the year of application;
- hold a PhD degree in a field of natural sciences;
- be nationals of a developing country (other than Pakistan);
- be regularly employed in a developing country (other than Pakistan) and hold a research assignment there;
- provide a certificate of good health from a qualified medical doctor;
- provide an official Acceptance Letter from the supervisor or head of department at ICCBS (see sample Acceptance Letter, page 11). Requests for acceptance must be directed to the Director of ICCBS, Prof. M. I. Choudhary by e-mail (hej@cyber.net.pk or pcmd@cyber.net.pk) who will facilitate the assignment of a host supervisor. In contacting Prof. Choudhary applicants **must** accompany their request for a preliminary acceptance letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **30 June** each year.
- Applicants must submit an Acceptance Letter from ICCBS when applying, or by the deadline at the latest. Without preliminary acceptance the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachments via e-mail directly to TWAS. The subject line must contain: ICCBS/PDoc/candidate's surname. Alternatively, letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-ICCBS Postdoctoral Fellowship Programme** should send one copy of their application to TWAS only (by email or post). Please do **not** send a copy to ICCBS.

CONTACT DETAILS

TWAS Fellowships Office

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E-mail: fellowships@twas.org

For information purposes only:

Prof. Muhammad Iqbal Choudhary
Director
International Center for Chemical and Biological
Sciences (ICCBS)
University of Karachi, Karachi-75270
Pakistan
Tel: +92 21 4824 924, 4824 925
Fax: +92 21 4819 018, 4819 019
E-mail: hej@cyber.net.pk, pcmd@cyber.net.pk

Additional information: TWAS-BIOTEC, Thailand

TWAS-BIOTEC Postdoctoral Fellowship Programme

Deadline: 15 September

Programme Details

- TWAS-BIOTEC Postdoctoral Fellowships are tenable in BIOTEC and its affiliated research units listed on this website: <http://www.biotec.or.th/biotechnology-en/en/Research-Units.asp> for a period of twelve (12) to twenty-four (24) months and are awarded to young scientists from developing countries (other than Thailand) to enable them to pursue advanced research in biotechnology.
- BIOTEC will provide a standard monthly allowance which should be used to cover living costs, such as accommodation and food.
- The language of instruction is English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be nationals of a developing country (other than Thailand);
- hold a PhD degree in any of the following fields: molecular biology, molecular genetics, microbiology, biochemistry, biotechnology and bioinformatics and related disciplines;
- apply for the fellowship within five years of having obtained a PhD degree in a fields of the natural sciences specified above;
- be regularly employed at a research and/or teaching institution in their home country where they must hold a research assignment;
- provide an official Acceptance Letter from BIOTEC. Requests for acceptance must be directed to BIOTEC Research Unit Coordination Division (e-mail: rucd@biotec.or.th) who will facilitate assignment of a host supervisor;
- provide evidence of proficiency in English.

Submitting your application

- The deadline for receipt of applications is **15 September** of each year.
- Applicants should submit the Acceptance Letter from to BIOTEC Research Unit Coordination Division to TWAS and BIOTEC when applying or by the deadline at the latest. Without preliminary acceptance, the application will **not** be considered for selection.
- Reference letters: Referees must send signed letters as attachment via e-mail directly to TWAS and BIOTEC. The subject line must contain: BIOTEC/PDoc/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants for the **TWAS-BIOTEC Postdoctoral Fellowship Programme** should send their application to TWAS **and** BIOTEC (by e-mail or by post).

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Fax: +39 040 2240 689
E-mail: fellowships@twas.org

BIOTEC Research Unit Coordination Division
**National Center for Genetic Engineering and
Biotechnology (BIOTEC)**
113 Phahonyothin Road
Klong1, Klong Luang
Pathumthani 12120 Thailand
Tel: (66-2) 564 6700
Fax: (66-2) 564 6707
Email: rucd@biotec.or.th

TWAS South-South Fellowship programme partners



The National Council for Scientific and Technological Development (CNPq), Brasilia, Brazil – www.cnpq.br – is a foundation linked to the Brazilian Ministry of Science and Technology. CNPq is one of the major public institutions supporting science, technology and innovation in Brazil and contributes directly to the training of researchers – masters, doctors and specialists – in the various fields of knowledge.



The Chinese Academy of Sciences (CAS), Beijing, China – www.cas.ac.cn – is the highest academic institution and national comprehensive research and development centre in natural sciences and high-tech innovation in China. CAS also serves as the supreme national advisory body on science and technology. CAS has more than 80 research institutes and one university and one graduate school distributed throughout the country.



The Council of Scientific and Industrial Research (CSIR), India – www.csir.res.in – is the Indian government's main research and development organization. It consists of a network of 38 institutes and laboratories and 39 outreach centres covering most areas of science and technology.



The Department of Biotechnology (DBT) of the Ministry of Science and Technology, India – www.dbt.gov.in – sponsors research in biotechnology at a number of centres of excellence in India, including university departments and CSIR institutes and laboratories.



The S.N. Bose National Centre for Basic Sciences, India – www.bose.res.in – was established in Kolkata in 1986 as an autonomous institution by the Department of Science and Technology of the government of India. It has some 36 faculty and scientists active in many areas of physics.



The Indian Association for the Cultivation of Science (IACS), India – www.iacs.res.in – established in 1876 in Kolkata, is the oldest institute in India devoted to the pursuit of fundamental research in the frontier areas of basic sciences (chemistry and physics).



The Universiti Sains Malaysia (USM) – www.ips.usm.my – is a worldwide renowned institution of higher education that offers courses at undergraduate and postgraduate levels to approximately 20,000 students at 24 schools and 33 centres located in three university campuses.



The National Council on Science and Technology (CONACYT), Mexico - www.conacyt.mx - aims to promote the scientific development and technological modernization of Mexico through developing high level human resources, promoting and maintaining specific research projects, and disseminating scientific and technological information.



The National Centre of Excellence in Molecular Biology (CEMB), Pakistan – www.cemb.edu.pk/cemb.asp – based in Lahore, has expertise in plant and medical molecular biology and molecular genetics.



The International Center for Chemical and Biological Sciences (ICCBS), Pakistan – www.iccs.edu – based in Karachi, comprises the H.E.J. Research Institute of Chemistry and the Dr. Panjwani Center for Molecular and Drug Research.



The National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand – www.biotec.or.th - founded in 1983, is a premiere research institute in Thailand and the region, with over 30 laboratories and 150 principle scientists conducting basic and applied research covering a wide spectrum from agricultural science to biomedical science and environmental science.

TWAS is grateful for the administrative and financial support provided by the above organizations in the implementation of the various collaborative fellowship programmes. TWAS also acknowledges the financial support of the Government of Italy.