

TWAS Fellowships for Postgraduate Research

APPLICATION GUIDELINES

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 postgraduate research in countries other than their own. These programme partners include:

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

The **TWAS-CNPq Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than Brazil) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in the natural sciences in Brazil. *Duration: up to 4 years.*

Chinese Academy of Sciences (CAS), China

The **TWAS-CAS Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than China) who wish to undertake the final year of their PhD research in China. *Duration: 1 year.*

Council of Scientific and Industrial Research (CSIR), India

The **TWAS-CSIR Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than India) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in newly emerging areas in science and technology for which facilities are available in CSIR laboratories and institutes. *Duration: up to 4 years.*

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

The **TWAS-DBT Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than India) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in biotechnology at key biotechnology research institutions in India. *Duration: up to 5 years.*

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

The **TWAS-SN Bose Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than India) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in physical sciences. *Duration: 4 years (plus possibility of one year extension).*

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

The **TWAS-IACS Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than India) who wish to obtain a PhD 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: up to 4 years.*

Universiti Sains Malaysia (USM), Malaysia

The **TWAS-USM Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than Malaysia) who wish to obtain a PhD in one of the fields of natural sciences. *Duration: up to 3 years.*

The National Council on Science and Technology (CONACYT), Mexico

The **TWAS-CONACYT Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than Mexico) who wish to obtain a PhD in one of the fields of natural sciences. *Duration: up to 4 years.*

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

The **TWAS-CEMB Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than Pakistan) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in molecular biology and molecular genetics. *Duration: up to 4 years.*

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

The **TWAS-ICCBS Fellowship Programme for Postgraduate Research** offers fellowships to young scientists from developing countries (other than Pakistan) who wish to obtain all or part (SANDWICH or FULL-TIME) of their PhD in organic chemistry, biochemistry, biotechnology, molecular medicine, pharmacology or physical chemistry. *Duration: up to 4 years.*

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	√	√	√	-	-	-	√	-

√ = Fellowship offered in this subject area

- = Fellowship NOT offered in this subject area.

IMPORTANT NOTES

Applicants may apply for only **one** TWAS Fellowship per year. For example, applicants to the TWAS-CAS programme cannot also apply to other TWAS Fellowship programmes with other partners, including those provided through CEMB, CNPq, CONACYT, CSIR, DBT, IACS, USM, ICCBS, S.N. Bose, TWAS Fellowships for Research and Advanced Training and the TWOWS Postgraduate Training Fellowships for Women Scientists in Sub-Saharan Africa and Least Developed Countries (LDCs) at Centres of Excellence in the South.

Applicants for TWAS Fellowships for Research and Advanced Training and the TWOWS Postgraduate Training Fellowships for Women Scientists in Sub-Saharan Africa and Least Developed Countries (LDCs) should download the relevant application form (see either www.twas.org, under the 'Programmes' tab, or www.twows.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 'Additional information' sections for specific information regarding each programme. Remember, you can apply for only one Fellowship programme per year.

- 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 also including health insurance. If health insurance is not provided by the programme partner, obtaining suitable health insurance is the candidate'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 5 to TWAS (in all cases) and to the relevant programme partner organization (except in the cases 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 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

For all programmes, except CNPq (Brazil), the call for applications is open from 1 March of each year until the deadlines indicated below.

For CNPq, the 2010 call for applications is open from 9 April until the deadline indicated below.

CSIR, India	IACS, India	CEMB, Pakistan	ICCBS, Pakistan	CONACYT, Mexico	CNPq, Brazil	CAS, China	DBT, India	SN Bose, India	USM, Malaysia
1 June	30 June	30 June	30 June	1 July	13 August	31 August	31 August	31 August	15 September

NEW! STEP BY STEP GUIDELINES ON HOW TO APPLY

It is important to note that applicants cannot apply for fellowships tenable in their home country, for instance an Indian applicant applying for a fellowship tenable in India will be considered ineligible. The same applies to applicants already in the host country.

In order to apply to the TWAS Fellowships each applicant is requested to follow a few key steps that are indicated below:

1. WHICH PROGRAMME SHOULD I CHOOSE?

You should carefully read the “General information” and “Additional information” sections in the application forms and choose the most suitable fellowship for your research needs.

2. CHECK ELIGIBILITY CRITERIA:

After choosing a fellowship programme, you should verify that you are eligible and meet ALL the eligibility criteria specified in the application form for your chosen programme (e.g. age, nationality etc.).

3. CHOOSE AN ELIGIBLE HOST INSTITUTE:

Select a suitable host institution under the fellowship you have chosen. In the application forms, under “Additional information”, you will find the website addresses leading to the lists of eligible host institutes for each programme.

4. GET PRELIMINARY ACCEPTANCE:

Applying is subject to acceptance at a host institute. After choosing an eligible host institute, you must seek to obtain preliminary acceptance and an Acceptance Letter (see sample on page 5 of the application form). To request an Acceptance Letter you must contact the chosen host institution via e-mail, fax or by sending a letter with your CV, research proposal and the sample copy of the Acceptance Letter. The Acceptance Letter must indicate the starting date the year following application, i.e. if applying in 2010, the letter must indicate 2011 as the starting date.

Obtaining preliminary acceptance at an eligible host institute is the responsibility of the applicant and applications cannot be processed if an Acceptance Letter is not received.

For CNPq, CAS, CSIR, CONACYT and DBT, requests for acceptance must be directed to the chosen host institution(s), and NOT to the programme partner.

Applications will not be considered without the Acceptance Letter from a host institution.

5. SUBMIT THE APPLICATION:

Once the Acceptance Letter has been received, you should submit to the TWAS Fellowships office (fellowships@twas.org) and to the other programme partner (in some cases) the completed application form by e-mail (as MS Word file) together with ALL the required enclosures in one zipped (compressed) electronic file. Alternatively, applications can be submitted by fax or by post.

It is advised to apply for the Acceptance Letter well in advance so that there is sufficient time for you to collate all required documents for submission by the deadline.

Acceptance Letters and any other application documents are **not** accepted after the deadline.

An official acknowledgment will be sent confirming the status of your application once it has been processed and not upon receipt.

If awarded, the fellowship must be taken up in the year following the year of the application.

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 Postgraduate 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, CONACYT and ICCBS). 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.

For CNPq, refer to the sample acceptance letter available at www.cnpq.br/editais/ct/2010/twas.htm.

<p>HOST INSTITUTION'S LETTERHEAD</p> <p>Department's name Postgraduate programme's name Institutional address Tel and fax numbers E-mail address</p> <p>[Place and Date]</p> <p>Dear _____ [candidate's name and surname] - _____ [country of citizenship],</p> <p>This is to inform you that, as a candidate for a postgraduate fellowship under the agreement established by TWAS and _____ [programme partner], you have been accepted for a _____ [FULL-TIME or SANDWICH, please specify*] postgraduate programme of the duration of _____ [length of time, months/years, please specify] in _____ [field of specialization/academic programme] at this department/institution _____.</p> <p>If subsequently selected for a TWAS-_____ [programme partner] Fellowship, you should begin your studies/research in the _____ [first or second] academic semester of _____ (year) 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]. to be contacted at _____ [email address]. The topic for which you have been accepted to study at this institution is: _____.</p> <p>Yours sincerely,</p> <p>_____ Signature and name of head of department or postgraduate studies coordinator</p> <p><i>N.B. The letter cannot be accepted without a signature.</i></p>

* The FULL-TIME Fellowship applies to candidates who intend to register for a PhD in the host country. The SANDWICH Fellowship entails one research visit at the host institute for applicants who are already registered for a PhD in their home country. Please verify the minimum and maximum duration of the sandwich programme in the application form (under the "Additional information" section of each programme partner).

IMPORTANT NOTE:

The starting date on the acceptance letter must be the year following the application e.g. If you apply for a fellowship in 2010 the acceptance letter should show the starting date as 2011.

Additional information: TWAS-CNPq, Brazil

TWAS-CNPq Postgraduate Fellowship Programme

Deadline: 13 August

Programme Details

- TWAS-CNPq Postgraduate Fellowships are tenable at research institutions in Brazil for a period of up to four years and are awarded to students from developing countries (other than Brazil) to enable them to pursue all or part (SANDWICH or FULL-TIME) of their research leading towards a PhD degree in the natural sciences.
- The academic year in Brazil usually begins on 1 March and the second semester in early August of each year. Candidates will enrol for their PhD at the host institution and must observe the academic calendar of the host institution and be ready to start their Fellowship on the first day of classes/courses (most likely in Portuguese).
- An Excel worksheet list of research institutions in Brazil where TWAS-CNPq Fellowships are tenable (CAPES-Conceito 5, 6 and 7) is available for download here: [CAPES_inst_2008.xls](#)
- 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 language of instruction is Portuguese for most institutions, and in a few institutions English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be a maximum age of 35 years on 31 December of the application year;
- be permanent residents in a developing country (other than Brazil);
- hold a Master's degree in a field of the natural sciences;
- provide evidence that s/he will return to her/his home country on completion of the fellowship;
- not take up other assignments during the period of her/his fellowship;
- provide an official acceptance letter from the host institution (see sample Acceptance Letter in the application form) and be willing to register for a PhD degree in the natural sciences at a participating CAPES-listed Brazilian institution (see point 3 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);
- have an updated Curriculum Vitae on CNPq's Lattes Platform;
- present a detailed research plan;
- be financially responsible for any accompanying family members.

For sandwich postgraduate fellowship applicants only:

- be officially registered as a PhD student in her/his home country for at least 12 months before presenting her/his candidacy to the sandwich postgraduate fellowship;
- have a letter of agreement of her/his supervisor in her/his home country.

Submitting your application

The call for applications is open **from 9 April until 13 August 2010**. No applications will be accepted after this date. Therefore, it is recommended to submit your electronic application as early as possible.

- From this year, **all applications to the TWAS-CNPq Fellowships programmes must be submitted online only**. The call for applications where you will find the programme details, eligibility criteria, required documents and certificates as well as the online application form is available at www.cnpq.br/editais/ct/2010/twas.htm.
- Applicants must be aware that CNPq and TWAS will not accept applications submitted by any other means except via the online application form.
- Incomplete applications will not be accepted.

- Queries concerning the call for applications to the TWAS-CNPq Fellowships programmes should be directed to: twas.ascin@cnpq.br.

CONTACT DETAILS

For information purposes only:

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 Postgraduate Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-CAS Postgraduate 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. This is not a full PhD programme, but specifically enables PhD students to carry out all or part of the **final year of their research programme** in China.
- **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/CASI/
- 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 necessary. 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 35 years on 31 December of the application year;
- be nationals of a developing country (other than China);
- hold a Master's degree in a field of the natural sciences;
- be registered PhD students in their home country;
- 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, on page 5) to this effect. Requests for acceptance must be directed to the chosen CAS host institution(s), and NOT to CAS headquarters; and
- provide evidence of proficiency in English or Chinese.

Submitting your application

The call for applications is open **from 1 March until 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/PG/ candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-CAS Postgraduate Fellowship Programme** should send their application to TWAS and CAS.

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

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 Postgraduate Fellowship Programme

Deadline: 1 June

Programme details

- TWAS-CSIR Postgraduate Fellowships are tenable in CSIR research laboratories and institutes in India for a maximum period of four years.
- Applicants may be registered for a PhD degree in their home country, or may enrol in a PhD course at any university in India.
- **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".
- SANDWICH Fellowships (for those registered for a PhD in their home country): The Fellowship may be granted for a minimum period of 6 months and a maximum period to be decided by the host institute.
- FULL-TIME Fellowships (for those not registered for a PhD): The Fellowship may be granted for an initial period of up to 12 months. Such Fellowships may then be extended for a further 3 years, subject to the student's performance and his/her registration for PhD at a university in India. CSIR will confirm any such extensions to both TWAS and the candidate.
- In both the sandwich and full-time Fellowship options, the programme envisages only one journey to the host country.
- 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 35 years on 31 December of the application year;
- be nationals of a developing country (other than India);
- hold a Master's degree in science and technology;
- be regularly employed in their home country and hold a research assignment there;
- SANDWICH Fellowships: be registered PhD students in their home country and provide the "Registration and No Objection Certificate" from the HOME university **OR**
- FULL-TIME Fellowships: be willing to register at a university in India within the first year, **if** agreed to by CSIR;
- be accepted at a CSIR laboratory/institution and provide an official Acceptance Letter from the host institution (see sample Acceptance Letter, on page 5) to this effect. Requests for acceptance must be directed to the chosen CSIR host institution(s), and NOT to CSIR headquarters;
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 1 June** of each year.

- If already registered for a PhD in their home country, applicants should ensure that the Vice-Chancellor or Registrar of the HOME university signs a copy of the "Registration and No Objection Certificate" (see on page 10), a copy of which should be sent to both CSIR and TWAS.
- 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/PG/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-CSIR Postgraduate Fellowship Programme** should be sent to TWAS and CSIR (by post, fax or email).

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

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

FOR APPLICANTS ALREADY REGISTERED FOR A PHD IN THEIR HOME COUNTRY

(ONLY FOR CSIR, S.N. BOSE AND DBT (INDIA) SANDWICH FELLOWSHIP APPLICATIONS; FOR CNPQ SANDWICH FELLOWSHIPS REFER TO THE SAMPLE AVAILABLE AT WWW.CNPQ.BR/EDITAIS/CT/2010/TWAS.HTM)

SAMPLE REGISTRATION & NO OBJECTION CERTIFICATE

[Institution's Letterhead]

[Institution's address and contact details]

Registration & No Objection Certificate

This is to certify that Mr/Mrs/Ms, son / daughter of, has been registered in the Department of..... at the University of for PhD in the area of since

We hereby convey our No Objection towards his/her study/work in [*indicate host institution, city and country*], and also agree to accept Host Supervisor, [*indicate title, name and surname of host supervisor*] as a Co-Supervisor in the final assessment of the thesis/dissertation based on which the PhD degree could be offered to Mr/Mrs/Ms by us.

[Signature with Seal]

NOTE: This certificate should be signed by the Vice-Chancellor or Registrar of the University where the candidate is registered for his/her PhD

Additional information: TWAS-DBT, India

TWAS-DBT Postgraduate Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-DBT Postgraduate Fellowships are tenable at key biotechnology research institutions in India for a period of up to five years.
- 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.
- SANDWICH Fellowships (for those registered for a PhD in their home country): The Fellowship may be granted for a minimum period of 12 months and a maximum period of 2 years.
- FULL-TIME Fellowships (for those not registered for a PhD): The Fellowship is granted for an initial period of up to 3 years. Such Fellowships may then be extended for a further 2 years, subject to the student's performance. Candidates will register for their PhD at a university in India. DBT will confirm any such extensions to both TWAS and the candidate.
- 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 30 years on 31 December of the application year;
- be nationals of a developing country (other than India);
- hold a Master's or equivalent degree in science or engineering;
- for SANDWICH Fellowships: be registered PhD students in their home country and provide the "Registration and No Objection Certificate" from the HOME university; **OR**
- FULL-TIME Fellowships: be willing to register at a university in India;
- be accepted at a biotechnology institution in India (see sample Acceptance Letter, on page 5). Requests for acceptance must be directed to the chosen host institution(s), and NOT to DBT; and
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 31 August** each year.

- For SANDWICH Fellowships (only if already registered for a PhD in the HOME country) applicants should ensure that the Vice-Chancellor or Registrar of the university sends a signed copy of the "Registration and No Objection Certificate" on institutional headed paper to TWAS (see sample form, on page 10).
- 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/PG/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-DBT Postgraduate Fellowship Programme** should be sent to TWAS only (by post, fax or email).

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

Additional information: TWAS-SN Bose, India

TWAS-SN Bose Postgraduate Fellowship Programme

Deadline: 31 August

Programme Details

- TWAS-SN Bose Postgraduate Fellowships are tenable at the S.N. Bose National Centre for Basic Sciences in Kolkata, India – www.bose.res.in – for studies leading towards a PhD degree in the physical sciences for four years with the possibility of a one-year extension. **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 scanning 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.

- Admission to the PhD programme at the S.N. Bose National Centre will depend on the successful completion of coursework (about one year's duration).
- Applicants may be registered for a PhD degree in their home country (SANDWICH option), or may enrol in a PhD course at the S.N. Bose National Centre for Basic Sciences (FULL-TIME option). In both cases, the programme envisages only one journey to the host country.
- 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 35 years on 31 December of the application year;
- be permanent resident in a developing country (other than India);
- hold a Master's degree in physics, mathematics or physical chemistry;
- for SANDWICH Fellowships: be registered PhD students in their home country and provide the "Registration and No Objection Certificate" from the HOME university; **OR**
- FULL-TIME Fellowships: be willing to register at the S.N. Bose;
- 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, on page 5). In contacting Prof. Mookerjee, applicants **must** accompany their request for an Acceptance Letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 31 August** of each year.

- For SANDWICH Fellowships (only if already registered for a PhD in the HOME country) applicants should ensure that the Vice-Chancellor or Registrar of the university sends a signed copy of the "Registration and No Objection Certificate" on institutional headed paper to TWAS (see sample form, on page 10).
- 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/PG/candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applications for the **TWAS-S.N. Bose Postgraduate Fellowship Programme** should be sent to TWAS only (by post, fax or email).

CONTACT DETAILS

TWAS Fellowships Office

ICTP campus, Strada Costiera 11
34151 Trieste, Italy
Tel: +39 040 2240314
Fax: +39 040 2240689
E-mail: fellowships@twas.org

For information purposes only:

*Prof. Abhijit Mookerjee, Senior Professor & Dean
Head, Materials Science Department
S.N. Bose National Centre for Basic Sciences
JD Block, Sector 3, Salt Lake City - 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 Postgraduate Fellowship Programme Deadline: 30 June

Programme Details

- TWAS-IACS Postgraduate Fellowships are tenable at the Indian Association for the Cultivation of Science (IACS) – www.iacs.res.in – for a period of maximum four years for studies leading to a PhD degree. **Research areas** carried out include:
 - 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.
- Applicants must observe the IACS academic calendar, which starts in April each year, and be ready to start their Fellowship on the first day of classes/courses.
- The language of instruction is English.

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 30 years on 31 December of the application year;
- hold a Master's degree in a field of natural sciences;
- be nationals of a developing country (other than India);
- provide an official Acceptance Letter from a department of the Indian Association for the Cultivation of Science (IACS) (see sample Acceptance Letter, on page 5);
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 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/PG/candidate's surname. Alternatively, reference letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-IACS Postgraduate 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 Postgraduate Fellowship Programme

Deadline: 1 October

Programme Details

- TWAS-USM Postgraduate Fellowships are tenable in the departments, institutions and laboratories of the Universiti Sains Malaysia – www.ips.usm.my – for a period of three years for studies leading to a PhD degree in the natural sciences.
- The academic year in Malaysia begins in December and the second semester in July of each year, following the year of application. Candidates will enrol for their PhD at a USM department/laboratory and must observe USM's academic calendar and be ready to start their fellowship on the first day of classes/courses.
- 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 a maximum age of 35 years on 31 December of the application year;
- be nationals of a developing country (other than Malaysia);
- hold a Master's degree in a field of the natural sciences;
- provide an official Acceptance Letter from a department, laboratory or institute at USM (see sample Acceptance Letter, on page 5). 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 an Acceptance Letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 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/ PG/the candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-USM Postgraduate Fellowship Programme** should send their application to TWAS and USM.

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

Prof. Roshada Hashim, Dean
Institute of Graduate Studies
Universiti Sains Malaysia (USM)
11800 Penang, Malaysia
Tel: +60 4 6532 930
Fax: +60 4 6532 931
Email: roshada@usm.my

Additional information: TWAS-CONACYT, Mexico

TWAS-CONACYT Postgraduate Fellowship Programme Deadline: 1 July

Programme Details

- TWAS-CONACYT Postgraduate Fellowships are tenable at eligible institutions of higher education and research in Mexico for a period of maximum four years for studies leading to a PhD degree in the natural sciences and related fields.
- The academic year in Mexico usually begins in August of each year. Candidates will enrol for their PhD at the host institution and must observe the academic calendar of the host institution and be ready to start their fellowship on the first day of classes/courses.
- 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.
- Upon arrival in Mexico successful awardees will need to collaborate with the postgraduate co-ordinator of their host institution to complete a CONACYT-required application form.
- CONACYT will provide a standard monthly allowance which should be used to cover living costs, such as accommodation and food.
- CONACYT will also provide medical services through the ISSSTE (Instituto de Seguridad y Servicios Sociales de los Trabajadores del Estado).

Eligibility

Applicants for these Fellowships must meet the following criteria:

- be a maximum age of 30 years on 31 December of the application year;
- be nationals of a developing country (other than Mexico);
- hold a Master's degree in a field of the natural sciences;
- provide an official Acceptance Letter from the host institution (see sample Acceptance Letter, on page 5) and be willing to register for a PhD degree in the natural sciences at a Mexican institution of higher education. Requests for acceptance must be directed to the chosen host institution(s), and NOT to CONACYT;
- prove knowledge of Spanish according to the requirements of each Postgraduate programme, if this language is not the candidate's mother tongue. The applicant will be informed of these requirements on applying to the relevant postgraduate programme.

Submitting your application

The call for applications is open **from 1 March until 1 July** of each 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/PG/the candidate's surname. Alternatively, letters should be sent by post in sealed envelopes.
- Applicants to the **TWAS-CONACYT Postgraduate Fellowship Programme** should send their application only to TWAS.

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

For information purposes only:

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

Additional information: TWAS-CEMB, Pakistan

TWAS-CEMB Postgraduate Fellowship Programme

Deadline: 30 June

Programme Details

- TWAS-CEMB Postgraduate Fellowships are tenable at departments of the National Centre of Excellence in Molecular Biology (CEMB) – www.cemb.edu.pk/cemb.asp – for a period of up to four years for studies leading to a PhD degree in: molecular biology, molecular genetics, plant molecular biology or medical molecular biology.
- SANDWICH Fellowships (for those registered for a PhD in their home country): The Fellowship may be granted for a minimum period of 6 months and a maximum period to be decided with CEMB.
- FULL-TIME Fellowships (for those not registered for a PhD): The Fellowship is granted for maximum 4 years.
- In both cases, TWAS covers only one return journey to the host country.
- 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.
- If awarded, applicants must sit a compulsory entrance examination in either April or September prior to starting their Fellowship.
- The language of instruction is English.

Eligibility

- Applicants for these fellowships must meet the following criteria:
- be a maximum age of 35 years on 31 December of the year of application;
- be nationals of a developing country (other than Pakistan);
- hold a Master's degree in a field of natural sciences;
- for SANDWICH Fellowships: be registered PhD students in their home country; **OR**
- FULL-TIME Fellowships: be willing to register at CEMB;
- provide an official Acceptance Letter from CEMB (see sample Acceptance Letter, page 5). Requests for acceptance must be sent to the Director of CEMB (Prof. Dr. Muhammad Amin Athar: by e-mail director@cemb.pu.edu.pk and camb1@wol.net.pk) who will facilitate assignment of a host supervisor. In contacting Prof. Athar applicants **must** accompany their request for an Acceptance Letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 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/PG/candidate's surname. Alternatively, letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-CEMB Postgraduate Fellowship Programme** should send a copy of their application (by email, fax or post) to TWAS and CEMB. (For CEMB only: if sending by email or fax, a hard copy must also be submitted by post).

CONTACT DETAILS

TWAS Fellowships Office

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

Dr. Ahmad Ali Shahid
In charge of MPhil/PhD Programme
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, 42 529 3149
Email: camb1@wol.net.pk, director@cemb.edu.pk

Additional information: TWAS-ICCBS, Pakistan

TWAS-ICCBS Postgraduate Fellowship Programme

Deadline: 30 June

Programme Details

- TWAS-ICCBS Postgraduate 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 period of up to four years for studies leading to a PhD degree in the following fields: organic chemistry, biochemistry, biotechnology, molecular medicine, pharmacology or physical chemistry.
- SANDWICH Fellowships (for those registered for a PhD in their home country): The Fellowship may be granted for a minimum period of 6 months and a maximum period to be decided with ICCBS.
- FULL-TIME Fellowships (for those not registered for a PhD): The Fellowship is granted for maximum 4 years.
- In both cases, TWAS covers only one return journey to the host country.
- 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.
- If awarded, applicants must sit a compulsory entrance examination in either April or October prior to starting their Fellowship.
- The language of instruction is English.

Eligibility

Applicants for these fellowships must meet the following criteria:

- be a maximum age of 35 years on 31 December of the year of application;
- be nationals of a developing country (other than Pakistan);
- hold a Master's degree in a field of natural sciences;
- for SANDWICH Fellowships: be registered PhD students in their home country; **OR**
- FULL-TIME Fellowships: be willing to register at the University of Karachi (Pakistan);
- provide a certificate of good health from a qualified medical doctor;
- provide an official Acceptance Letter from ICCBS (see sample Acceptance Letter, page 5). Requests for acceptance must be sent to the Director of ICCBS (Prof. M.I. Choudhary: by e-mail hej@cyber.net.pk and pcmd@cyber.net.pk) who will facilitate assignment of a host supervisor. In contacting Prof. Choudhary, applicants **must** accompany their request for an Acceptance Letter with copy of their CV and a research proposal outline;
- provide evidence of proficiency in English.

Submitting your application

The call for applications is open **from 1 March until 30 June** of 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/PG/candidate's surname. Alternatively, letters can be sent by post in sealed envelopes.
- Applicants to the **TWAS-ICCBS Postgraduate 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

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ICTP campus
Strada Costiera 11
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Tel: +39 040 2240 314
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For information purposes only:

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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.



सत्यमेव जयते

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.

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