

**INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY**  
(An Autonomous Institute under Department of Science and Technology, Govt. of India)  
Paschim Boragaon, Garchuk, Guwahati- 781035

**Admission to Ph.D. Programme for Academic Year 2016-17**

**Advertisement No. 17**

**Date: 02.08.2016**

**Admission into [1] Regular PhD programme of IASST with fellowship, [2] PhD under IASST-Deakin University, joint fellowship programme.**

[1] The Institute of Advanced Study in Science and Technology (IASST), Guwahati is an autonomous R&D Institute under the Department of Science and Technology, Govt. of India. The Institute is engaged in frontier areas of research in the specific domain of Physical, Chemical, Mathematical and Biological Sciences. The Institute's aim is to contribute to basic sciences and develop technology using local resources through strong interdisciplinary research approach across different divisions. Institute is equipped with modern and sophisticated instrumentation including SEM, XRD, LCMS-MS, AFM, DNA Sequencer and computational facility for cutting edge scientific research. Ph.D. program of IASST is affiliated to Gauhati University and Cotton College State University.

The Institute invites applications against the following vacancies for admission into the Ph.D. program for the year 2016-17.

Sl. No.	Area of Research	Basic Qualification
1	Traditional Knowledge based Drug Development and Delivery	M.Sc./M.Pharm in Biochemistry/Pharmacology/Zoology (Cell Biology)
2	Bio-diversity and Ecosystem Research	M.Sc. in (Biotechnology/Microbiology)
3	Computational Condensed Matter Physics	M. Sc. in Physics
4	Experimental Soft Condensed Matter Physics	M. Sc. In Physics
5	Polymer Chemistry and Advanced Material	M. Sc. in Chemistry
6	Microbial-Antimicrobial Metabolite/Plant Microbe Interaction	M. Sc. in Botany (Microbiology) / M. Sc. in Biotechnology

**Eligibility:** Candidates shall be eligible to apply for admission and registration within the ongoing program of research at IASST leading to the degree of Doctor of Philosophy

(Ph.D.), if he/she has obtained 55% marks in aggregate (Equivalent CGPA in 10 point scale) in the master's degree examination. A candidate belonging to SC/ST who has obtained 50% marks in aggregate in master degree examination shall also eligible to apply. **The seats will remain vacant if suitable candidates are not found.**

**Application Procedure:** Application should be filled up in the format available in the Institute website <http://www.iasst.gov.in>. The candidate can print the form on A4-size plain paper, fill-up and send by post. Each page of the application form should be signed by the candidate. The candidate should write the serial number and area of research as listed above, for which he/she is applying on the application form as well as on the envelope containing the application.

Applications should be accompanied by self-attested copies of certificates and mark sheets. Two recent passport size photographs should be enclosed. One of these should be signed by the candidate and pasted on the application form. The candidate must provide their mobile/phone number and correct e-mail address as most of the correspondence will be done through these media. Incomplete applications and those received after the closing date will not be entertained. The decisions of the admission committee will be final and binding and no correspondence will be entertained in this regard. Results of written test and interview will be available in IASST website <http://www.iasst.gov.in> and all correspondence must be done through the email [registrar@iasst.gov.in](mailto:registrar@iasst.gov.in). Hard copy of the duly filled application should be sent to the Registrar, Institute of Advanced Study in Science and Technology (IASST), Paschim Boragaon, Garchuk, Guwahati- 781035, Assam, India **so as to reach within 30 days of publication of this advertisement.**

Applications sent by e-mail to [registrar@iasst.gov.in](mailto:registrar@iasst.gov.in) with scan copy of required enclosures will also be accepted. No application fee will be charged by the Institute.

**Selection Procedure:** List of applicants selected to appear in the entrance test will be uploaded in the IASST website. The expected dates of Entrance test followed by the interview will be displayed in website/communicated to candidates selected for entrance test.

**Entrance Test:** A written test will be conducted for the applicants and the short listed candidates will have to appear interview subsequently. The entrance test will be conducted using questions set by renowned expert/professor/scientist in the discipline concerned. There will be 45 numbers of multiple choice questions to be answered within one hour. Successful candidates in the written test will write an essay of 10 sentences on the area of research of his/her choice before the interview starts and submit to the expert panel constituted for final selection.

Candidates who hold fellowship from different funding agencies on account of clearing CSIR-UGC-NET/DBT-JRF/ICMR-JRF/ICAR-JRF examination need not appear written test of IASST but will appear the interview for final selection. Candidates who have qualified for the above fellowship will also express their research interest in form of an essay of 10 sentences on topic of their choice within the broad research program of IASST as listed above.

#### **Fellowship/Financial support for regular PhD programme of IASST:**

**Selected candidates will be required to join the Ph.D. program of IASST within a week's time from the date of announcement of result. The selected candidates**

shall be eligible for a monthly stipend and annual contingency as per the recent circular of DST, Govt. of India on fellowship for PhD. The selected candidates will be provided single room, well-furnished accommodation in the Dorothy Hodgkin Student and Scientists Home as per the Institute's rule. Candidates are requested to visit the Institute's website for updated details time to time.

**[2] Advertisement for PhD Research scholar for collaborative research at IASST and Deakin University, Australia.**

Institute of Advanced Study in Science and Technology (IASST), Guwahati, a premier multidisciplinary R&D National Institute in NE Region of India and Deakin University, Geelong, Australia had signed a MoU for collaborative research to be carried out at both the Institutes. This collaboration includes PhD research in advanced field of science under joint supervision of a Professor of Deakin University and a Scientist of IASST. Accordingly, the following fields of research will commence immediately:

1. Silk as Biomaterials
2. Human guts Microbiota
3. Environmentally sustainable processing of fibres, fibre composites, nano fibres as well as natural fibres including various silk or other natural fibres.

Applications are invited from eligible candidate for carrying out PhD research on the above topics. The research fellow will be guided jointly by the supervisor from IASST and Deakin University and the degree will be offered by the Deakin University, Australia. Selected research fellows will have to pursue six months of the PhD research at Deakin University and rest of the work will be done in laboratories at IASST, Guwahati.

**Qualification:** M.Sc. in Biophysics/Biochemistry/Biotechnology/Microbiology

**Desirable:** NET qualified candidates will be preferred.

The candidate has to submit a brief write up on the above topics in which he /she is willing to carry out PhD work narrating how the program will benefit him/her as well as the Nation. The write-up is expected to reflect creative ability and critical research thoughts and shortlisted candidates will have to reflect thorough knowledge on the write-up during interaction with the final selection committee. A written test may also be conducted to shortlist the selected candidates. Both Deakin University and IASST Experts will involve in the selection process.

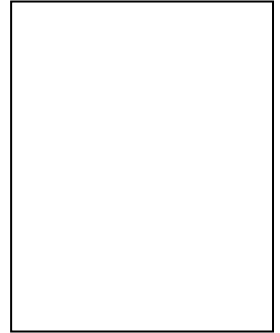
**Remuneration:** Remuneration for the period of research in Australia will be governed as per the norms of Deakin India Research Initiatives (DIRI) program of Deakin University and for the remaining period as per the norms that guides research fellowship of DST, Govt. of India

**Application Procedure:** Same as [1].

**Those who have applied in response to our earlier advertisement  
dtd 12.07.2016 need not apply again**

Registrar, IASST

## APPLICATION FORM



Serial no. & Area of Research Interest (please select from the table):

Name in full: .....

Father's Name: .....

D.O.B: ..... Gender: ..... Caste: .....

Permanent Address: .....

.....

Present Address: .....

.....

Country: ..... Email: .....@.....

Phone: ..... Mobile: .....

Examination	Board/University	Year of Passing	Obtained Marks	Out of Marks	% of Marks	Subject/Course/Specialization
Matriculation						
HS						
Degree						
PG						
M.Phil						
Any other qualification						
Technical qualification						

NAT/GATE score: .....

Experience (if any): .....

Date: \_\_/\_\_/\_\_\_\_

Signature: