



**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**

**Recruitment**

Advt. No-82

Date: 11/08/2017

Applications are invited for recruitment in the following positions at Institute of Advanced Study in Science and Technology (IASST) Garchuk, Guwahati (Assam). Eligible and interested candidates may submit applications online in prescribed format for consideration on or before 30<sup>th</sup> September, 2017.

**1. Name of the post: Associate Professor-II(Scientist-E/Equivalent) in Natural Product Chemistry (One position, Regular)**

**Pay:** PBRs. 37,400- Rs. 67,000/- GP Rs. 8,700/- pm

**Qualification and Experience:**

**Essential:** Ph.D in Phytochemistry/Organic chemistry, Natural product chemistry/Medicinal Natural Product Chemistry/Medicinal chemistry or equivalent with consistently good academic record and specialization in natural product chemistry having at least 8 years research experience as PDF or in scientific positions either in Govt. or private organization, high quality publication strictly on research area mentioned above.

**Desirable:** Knowledge on structure elucidation of bioactive molecules of medicinal plant and animal origin, drug design and development, experience of working with state of art equipments on natural product chemistry/Phytochemistry and should be capable of taking leadership and guiding and supervising a team of research workers within the traditional knowledge based drug discovery programme. It is desirable that the candidate will (1) possess very good academic record including 1<sup>st</sup> Class in M.Sc. with proven record of publication in high impact factor journal (2) be able to establish linkage with scientists/researchers of the other programmes (please see IASST's website) to incorporate interdisciplinary components as the new knowledge keeps evolving. (3) be able to interact effectively with clinicians and also with pharma company/enterprise for pre-clinical and clinical trials of effective formulations/drugs/characterized bioactive principles.

**Age:** Age limit 50 years on the last date of submission of application. Age bar relaxable as per Government Rules.

**2. Name of the post: Associate Professor-II (Scientist E/Equivalent) in Biodiversity and Eco-system research programme/Wetland Ecology (One position, Regular)**

**Pay:** PBRs. 37,400- Rs. 67,000/- GP Rs. 8,700/- pm

**Qualification and Experience:**

**Essential:** Ph. D. in the area of Environmental sciences/Wetland Ecology/Restoration Ecology/Aquaculture/Fishery Sciences with at least 8 years of postdoctoral research experience in reputed institutions or in reputed government or private organizations after Ph. D. in the relevant area with proven record of guiding and supervising research students in the area of specialization.

**Desirable:** IASST's biodiversity and ecosystem research programme has a strong component of research and development on faunal diversity including zooplankton, indigenous fishes of wetland ecosystem and productivity enhancement of these ecosystems. It is desirable that the scientist to be engaged in this research possesses (1) very good academic record including first class in M.Sc. with proven record of publication in high impact factor journals, (2) possess good knowledge of conventional and molecular taxonomy and ecology, (3) capability of strengthening this programme through building a strong interdisciplinary team and the interdisciplinary team members may be across the scientists of other research programmes with expertise in molecular biology, system biology and microbial biotechnology.

**Age:** Age limit 50 years on the last date of submission of application. Age bar relaxable as per Government Rules.

**3. Name of the post: Associate Professor-II (Scientist E/Equivalent) in Sericulture/Seri-biotechnology (One position, Regular)**

**Pay:** PBRs. 37,400- Rs. 67,000/- GP Rs. 8,700/- pm

**Qualification and Experience:**

**Essential:** Ph. D. in Sericulture/Seri-biotechnology/Entomology/Insect Ecology/Zoology with specialization in sericulture, consistently good academic record and at least 8 years of postdoctoral research experience in reputed institutions or in reputed government or private

organizations after Ph. D. in the relevant area. Proven record of high quality independent research and guiding and supervising research students in the area of specialization.

**Desirable:** Sericulture/Seri-biotechnology is an important component of IASST's biodiversity and ecosystem research programme with major focus on productivity enhancement of *muga* and *eri* silk through disease free seed development, indoor rearing technique development for *muga* worm, characterization of *muga* silk produced on different host and diversity of wild *muga* worm. It is desirable that the candidate possesses (1) very good academic record including first class in M.Sc. with proven record of publication in high impact factor journals, (2) good knowledge on molecular biology and molecular taxonomy, pre and postharvest technology (silk worm rearing, silk processing and characterization, silk worm host plant biology, (3) capable of building and guiding a team of researchers for this research in IASST through interdisciplinary approach, (4) ability for establishing linkage with researchers of other programmes with specialization on genomics, proteomics and also with eminent scientists, technology developers in this field and (5) required skill to participate in societal programme in sericulture.

**Age:** Age limit is 50 years on the last date of submission of application. Age bar relaxable as per Government Rules.

#### **4. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Plasma Physics (One position, Regular)**

**Pay:** PB Rs. 15,600- Rs. 39,800/- GP Rs. 6,600/- pm

#### **Qualification and Experience:**

**Essential:** Ph.D in Plasma Physics with consistently good academic record with at least four years of post-doctoral research experience in the relevant fields in reputed Govt. R&D institution or reputed private R&D organization in Numerical/Computational work in the plasma waves, instabilities and sheath phenomenon. Proven record of high quality independent research (impact factor publications). Experience of supervising research work of students.

**Desirable:** IASST is carrying out research under Basic and Applied programme for several decades and is planning to expand into new areas of experimental plasma research. The candidate should possess first class M. Sc. in Physics and experience in (1) working with low temperature laboratory plasma (2) numerical/computational work in plasma (3) developing

independent research project, and (4) the candidate is expected to explore possibility of developing projects with scientists of other programmes of the Institute.

**Age:** Age limit 40 years on the last date of submission of application in IASST. Age bar relaxable as per Government Rules.

**5. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Molecular Biology (One position, Contractual, likely to be regular depending upon performance)**

**Pay:** Fixed emolument of Rs. 71,000/-pm

**Qualification and Experience:**

**Essential:** Ph.D in any branch of Life Science from well recognized/reputed university/ Institution with proficiency in advanced molecular biology techniques and four years of post-doctoral experience in relevant field and publications in reputed journals of impact on science.

**Desirable:** A group of researchers in IASST are carrying out research on plant-microbe interaction, gut microbiome and its health implication, understanding protein composition of Muga silk which involves deeper knowledge of proteomics, metabolomics, transcriptomics and genomics. It is desirable that the candidate possesses (1) very good academic record including first class in M.Sc, (2) capability of leading and guiding a team of researchers in the area of this post through interdisciplinary approach, (3) ability to teach molecular biology to biology research scholars, (4) ability of planning, designing, conducting and guiding independent laboratory and field base research projects.

**Age:** Age limit 40 years on the last date of submission of application in IASST. Relaxable for SC/ST/Women candidates as per Govt. Rule.

**6. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Applied Mathematics (One position, Contractual, likely to be regular depending upon performance)**

**Pay:** Fixed emolument of Rs. 71,000/- pm.

**Qualification and Experience:**

**Essential:** Ph.D. in Applied Mathematics/Statistics with consistently good academic record and knowledge of data analysis, modeling & optimization, computer programming & visualization or equivalent having at least four years of post doctoral research experience.

**Desirable:** Knowledge of Numerical methods, Statistical modeling and analysis, Multivariate analysis and should be capable of guiding and supervising research programmes of the division in specified areas. Candidate should have a thorough knowledge on dynamical system, should have experience in making and solving mathematical models using differential equations, should know numerical simulations using computational applications like MATLAB, MAPLE or MATHEMATICA.

**Age:** Age limit 40 years on the last date of submission of application in IASST. Age bar relaxable as per Government Rules.

**7. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in System Biology  
(One position, Contractual, likely to be regular depending upon performance)**

**Pay:** Fixed emolument of Rs. 71,000/- pm.

**Qualification requirements and Experience:**

**Essential:** B Tech/M Tech in Biotechnology and Ph.D in System Biology. Candidate should have at least four years of post-doctoral experience which may be relaxable for exceptionally meritorious candidate.

**Desirable:** Candidate should know how to handle large scale data computationally; knowledge on graph theory and network analysis; pattern recognition and other statistical tools.

**Age:** Age limit 40 years on the last date of submission of application in IASST. Age bar relaxable as per Government Rules.

**8. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Biophysics (One position, Contractual, likely to be regular depending upon performance)**

**Pay:** Fixed emolument of Rs. 71,000/- pm.

**Qualification requirements and Experience:**

**Essential:** M.Sc. in Biophysics and Ph.D in Biophysics. Candidate should have at least four years of post-doctoral experience, high quality publications.

**Desirable:** IASST's research programmes are becoming increasingly interdisciplinary. Recently, research work initiated to understand effect of atmospheric plasma (electrical gas discharge and mobile tower radiation on biological system. It is desirable that incumbent possess knowledge on plasma (electrical gas discharge) mobile tower radiation interaction with biological system (microorganism, mammalian cells and tissues based on cell biology/microbiology) and capable

of working and coordinating with Basic and Applied Plasma Physics group and Life Science group of IASST for research mentioned above. Research experience in cell biology, proteomics and other relevant areas shall be preferred.

**Age:** Age limit 40 years on the last date of submission of application in IASST. Age bar relaxable as per Government Rules.

**Note:** 1. The selection committee may use its discretion to relax certain conditions and criteria for selection in case of exceptionally meritorious candidate for any of the position.

2. The IASST reserves the right to defer or decide against filling up of any one or more of the aforesaid position(s) without assigning any reason thereof.

### **INSTRUCTION TO BE FOLLOWED WHILE SUBMITTING APPLICATION:**

Eligible candidates may visit IASST website ([www.iasst.gov.in](http://www.iasst.gov.in)) and submit their applications online (Link: [www.iasst.res.in](http://www.iasst.res.in)) and also submit curriculum vitae (CV) through institute's email (ID: [apprecpt@iasst.gov.in](mailto:apprecpt@iasst.gov.in)) on or before 30<sup>th</sup> September, 2017.

**The candidates may note that the Selection Process and Procedure of Interview for various positions of Scientists/Faculty in IASST as given below:**

Only the short listed candidates will be called for interview. TA/DA will be provided within India to the shortlisted candidate for appearing in the interview by shortest railway route by II-tier AC.

**The contact details of the institute are as follows:**

Address: The Registrar,  
Institute of Advanced Study in Science and Technology (IASST),  
Paschim Boragaon, Garchuk, Guwahati – 781035, Assam.

Website: [www.iasst.gov.in](http://www.iasst.gov.in)

Online application link: [www.iasst.res.in](http://www.iasst.res.in)

Email ID: [apprecpt@iasst.gov.in](mailto:apprecpt@iasst.gov.in)

### **Selection Process and Procedure of Interview for various positions of Scientists in IASST**

#### **Stage I: Submission of Application and Note by the candidate.**

1. Application may be submitted online in specified format of the institute.
2. CV of the candidate may also be submitted by email to Institute mail ID: [apprecpt@iasst.gov.in](mailto:apprecpt@iasst.gov.in)

3. If employed, the candidate has to upload/submit proper and valid 'No Objection Certificate' from the employer before the date of interview.
4. Scan copies of all self-attested testimonials pertaining to degree/diploma, age, reservation category authentication certificates, proof of research and academic experience and other documents may be uploaded/submitted along with the application on or before the last date of submission.
5. The application besides other documents mentioned above must accompany the followings:
  - (a) A summary note (maximum 1000 words) on the research work published by the candidate in the relevant fields after completion of Ph.D. The candidate should highlight the major works done, output and achievements from these works for the said period in terms of completed projects, paper published, IPR/Patents obtained, technology generated/commercialized, contribution made towards physical and infrastructure development, programme/project framing and fund mobilization, participation in research and teaching activities and linkages etc.
  - (b) A research programme and work plan on the area (in not more than two pages) the candidate will like to pursue being in the position. The candidate is advised to go through the website of IASST for information on the research programmes of the Institute. The information may include new, innovative and original research project/ideas/thrust areas of work he/she proposes to introduce/conduct, facilities proposed to be developed, linkages and collaboration proposed with other research units and departments as well as the expected outcome from these approaches. The plan should be innovative and comprise of new ideas and feasible within the available resources and strength of the institute with realistic targets achievable within a period of five years or so. While formulating the plan, the past and present achievements, development and outcome of the institute may be reviewed and critical gap identified. The institute's website ([www.iasst.gov.in](http://www.iasst.gov.in)), annual reports etc. may be consulted for developing the plan. The candidate is free to visit the institute

(IASST) for a day or two for the purpose on his own expense with prior information and permission of the Director, if so desired.

(c) In case online access is not available due to some unforeseen reason, the candidates may submit hard copy of their application and other documents to the Registrar at the address given above.

### **Stage II: Interview**

1. Short listed candidates will be called for interview in due course of time to be held in the institute.
2. TA/DA will be provided to the short listed candidates within India by shortest railway route in two tier-AC for attending the interview. Arrangement for guest house/hostel accommodation for a day or so can be made subject to availability of rooms during that period on payment of rent as per norms of the institute. The other terms and conditions will be applicable as per Institute rules.
3. During the interview the candidate has to deliver a presentation of not more than 10-15 minutes on future plans described in the note submitted by the candidate with his/her application, if the selection committee so desire. Arrangements for PPT presentation will be available.

### **Stage III: Joining report**

1. The selected candidate will be informed giving a specified period of time for his/her joining the post in the institute. He/she has to inform his/her acceptance or otherwise immediately for taking necessary action from the institute.
2. The candidate has to submit Medical certificate, vigilance clearance certificate indicating the details of imposition of major/minor penalties, if any, during the past service life or at least for last ten years whatever the case may be before joining, if selected.
3. Registrar, IASST

**Please click on the below link for apply online.**

**[www.iasst.res.in](http://www.iasst.res.in)**