



**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**

**(A) RECRUITMENT OF SCIENTISTS/FACULTY**

Advt. No: 164

Date: 28/11/2018

Applications are invited for recruitment in the following positions of Scientists/Faculty 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 14<sup>th</sup> January, 2019.

**1. Name of the post: Professor-II (Scientist-G/Equivalent) in Environmental Microbiology** (One position, Regular)

**Pay:** Pay level 14 as per 7<sup>th</sup> CPC or PB Rs. 37,400 – Rs. 67,000 GP- Rs 10,000 as per 6<sup>th</sup> CPC

**Qualification and Experience:**

**Essential:** Ph.D in Environmental microbiology/microbiology/agricultural microbiology/soil microbiology or equivalent with consistently good academic record and specialization in bioremediation/reclamation of polluted terrestrial and aquatic ecosystem, having at least 16 years of experience in R&D in Govt. or private organization, high quality publication strictly on research area mentioned above. If suitable candidate with the required qualification & experience for Professor II position is not available, candidate with the above essential specialized qualification but with R&D experience of 8-14 years will be considered for positions below Professor II i.e. Professor I or Scientist F or Associate Professor II /Scientist E with relevant pay level.

**Desirable:** Knowledge on physiochemical characterization of polluted/degraded terrestrial and aquatic ecosystem, molecular characterization, microbial diversity for comparison of ecosystem health. Large scale remediation of polluted ecosystems such as oil polluted fields, chemicals/pesticides polluted soil and wetlands; Knowledge of microbial ecology, statistical methods for ecological studies. Strong leadership and ability for guiding and supervising a team of research workers for the specified field is desirable. It is also 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 industries such as coal mining, oil mining and agriculture, horticulture, forestry departments dealing with ecosystem pollution/degradation problem.

**Age:** Age limit below 55 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 Ecosystem research programme/Wetland Ecology** (One position, Regular)

**Pay: Pay level 13 as per 7<sup>th</sup> CPC or PB-4, Rs. 37,400 - Rs. 67,000. GP Rs. 8,700/- pm of 6<sup>th</sup> CPC**

**Qualification and Experience:**

**Essential:** Ph. D. in the area of Zoology/Fishery Science/Aquaculture/Wetland Ecology and other areas of Biology with experience of work in the field of Bio-diversity and Eco-system research with at least 8 (eight) years of postdoctoral research in reputed institution or in reputed government or private organizations after Ph. D. in the relevant area with proven record of guiding and supervising research students. In case candidates with 8 years experience are not found, candidates with at least 3-4 years of post doctoral research experience may also be considered for a lower level post.

**Desirable:** IASST's biodiversity and ecosystem research programme has a strong component of research and development on wetlands, 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) working knowledge of classical and modern taxonomy and ecology, (3) capability of strengthening this programme through building a strong interdisciplinary team which may be across the scientists of other research programmes with expertise in molecular 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/Seribiotechnology** (One position, Regular)

**Pay: Pay level 13 as per 7<sup>th</sup> CPC or PB-4, Rs. 37,400- Rs. 67,000. GP Rs. 8,700 pm of 6<sup>th</sup> CPC.**

**Qualification and Experience:**

**Essential:** Ph. D. in Entomology/Life Sciences/Zoology/Sericulture with specialization in Insect Molecular Biology and/or Insect Ecology with consistently good academic record and at least 8 (eight) years of postdoctoral research experience in reputed government or private organizations after Ph. D. in the relevant area. Proven record of high quality independent research and guiding/supervising research students in the area of the above specialization is required. In case candidates with 8 years experience are not found, candidates with at least 3-4 years of post doctoral research experience may also be considered for a lower level post.

**Desirable:** Research on *Muga* and *Eri* is an integral component of IASST's Biodiversity and Ecosystem Research programme. Candidates having experience in insect biodiversity, conservation and insect molecular biology works are desirable. 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 of 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: Associate Professor-I (Scientist D/Equivalent) in Medicinal Chemistry**

(One position, Regular)

**Pay:** Pay level 12 of 7<sup>th</sup> CPC or PB-3. Rs. 15,600- Rs. 39,100. GP Rs. 7,600 pm of 6<sup>th</sup> CPC.

**Qualification and Experience:**

**Essential:** Ph.D in Medicinal chemistry/ Phytochemistry/organic chemistry, Natural product chemistry/Medicinal Natural Product Chemistry/Drug discovery or equivalent with consistently good academic record and specialization in Medicinal chemistry/Natural Product chemistry/drug discovery etc. having at least 8 (eight) years research experience as PDF or in scientific positions either in Govt. or private organization, high quality publication strictly on research area mentioned above. If suitable candidate with the required qualification & experience for is not available, candidate possessing the above essential specialized qualification but with R&D experience of at least 4 years may be considered

for lower level position.

**Desirable:** Knowledge on synthesis and structure elucidation of bioactive molecules of medicinal plant and animal origin, drug design and development, experience of working with state of art equipments on medicinal chemistry/Natural Product chemistry/Phytochemistry/Drug discovery and should be capable of taking leadership and guiding and supervising a team of research workers within the traditional knowledge based drug discovery programme. Concept on *in vitro* and cell based assay and animal experimentation is also desirable. 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 is 50 years on last date prescribed for application submission. Relaxable for SC/ST/Woman candidates as per Govt. rule.

**5. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Advanced Material Science** (One position, Regular)

**Pay:** Pay level 11 of 7<sup>th</sup> CPC or PB-3. Rs. 15,600- Rs. 39,100. GP Rs. 6,600 pm of 6<sup>th</sup> CPC.

**Qualification and Experience:**

**Essential:** Ph.D in Physics with consistently good academic records and proven record of high quality research throughout the career with good publications. The candidate should have at least 4 (four) years of post-doctoral research experience in reputed Govt. or private research institution/organization in the area of photocatalytic semiconductor nanomaterials, plasmonic nanomaterials for solving energy and environmental issues.

**Desirable:** A group of researchers in IASST are working on different areas of nanoscience and nanotechnology. It is desirable that the candidate possess (1) proven record of publication in quality journals, (2) knowledge and experience of working on the related areas of plasmonics as mentioned, and (3) experience of supervising research works of students. The candidate is expected to establish linkage with scientists/researchers of other programmes to work on interdisciplinary research such as plasmonic materials in biomedical field, sensors etc.

**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 Plant Taxonomy**

(One position, Regular).

**Pay: Pay level 11 of 7<sup>th</sup> CPC or PB-3.** Rs. 15,600- Rs. 39,100. GP Rs. 6,600 pm of 6<sup>th</sup> CPC.

**Qualification and Experience:**

**Essential:** Ph. D in Botany (specialization in Plant Taxonomy) with consistently good academic record having at least 4 (four) years of post-doctoral research experience in the relevant fields i.e., classical/molecular plant taxonomy in reputed Govt. or private R&D institution/organization. Proven record of high quality independent research (impact factor publications). Experience of supervising research work of students and field based taxonomic work.

**Desirable:** IASST is carrying out research in the field of traditional knowledge based drug development. This programme also involves quality control of herbal medicine/formulations and detection of identity of the plant component either as a life source in field of the specific plant or as a powder component in herbal mixture is very important. It is desirable that a candidate fulfilling the essential qualifications is also well verse in carrying out analysis of plant powder composition. The candidate should also possess first class M.Sc in Botany with plant taxonomy as the field of specialization and experience in (1) Medicinal herbs identification, (2) Medicinal plant herbarium preparation and maintenance, (3) Modern method of plant identification, and (4) the candidate is expected to explore possibility of developing projects with scientists of other programmes particularly traditional knowledge based drug discovery of the Institute.

**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.

**7. Name of the post: Assistant Professor-II (Scientist C/Equivalent) in Applied Mathematics/Mathematical Physics** (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 4 (four) years of desirable 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.

**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:** Masters in any branch of Science/Technology/Engineering. Ph. D and at least 4 (four) years of post-doctoral research experience, with quality publications or patents, in areas of Structural Biology/Radiation Biology/Protein structure and dynamics/related areas of Biophysics.

**Desirable:** Research exposure in Cell Biology, Proteomics and other related areas will be given preference.

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

**Letters of Recommendations:** Applications for all the above posts must be supported by three letters of recommendation to be submitted confidentially to the Director of the Institute.

**Impact factor of published research paper:** Impact factor of the research papers given by Clarivate Analytics (Thomson- Reuters) will only be considered for publication made in the journal during the year in which the paper was published and not the current impact factor of the journal for calculation of scores.

**Important Notes:**

1. The candidates must carefully study the format of the application and instructions given, fill it up very meticulously furnishing all the required information correctly as sought for in order to avoid rejection of the application.
2. Declaration by the candidate has to be made that if their employer does not provide “No Objection certificate” the candidate will resign from his present post/service if selected.

3. The candidate has to furnish the name of his/her spouse along with the information whether he/she is employed along with the name of the organization and place of service of the spouse.
4. Only short listed candidates will be informed individually for appearing in interview. No uploading of interview notification will be made in website.
5. The IASST authority reserves the right to relax any of the above conditions on recommendation by the panel of experts to be constituted for selection of the post.
6. In case candidate with required experience is not found in positions at Sl. No. 1, 2, 3 and 4 above, candidates may also be considered for a lower level post.
7. Only selected candidate will be communicated the result after the interview and results will not be uploaded in the website.
8. 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: [iasst.res.in](http://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 14<sup>th</sup> January, 2019.

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

**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: [iasst.res.in](http://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' obtained from the employer or self declaration as specified earlier 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 of IASST 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 called for the interview within India by shortest railway route in II tier AC for the positions of Associate Professor I and above, and III tier-AC for the position of Assistant Professors or actual bus fare on submission of ticket/receipt.
3. Arrangement for guest house/hostel accommodation for a day or so can be made subject to availability of rooms during that period of interview on payment of rent as per norms of the institute. The other terms and conditions will be applicable as per Institute rules.
4. The interview/interaction will be held in two phases. On the first day/phase the candidate has to deliver a presentation of not more than 15-20 minutes on his/her past works and achievements and future plans described in the note submitted by the candidate with his/her application. Arrangements for PPT presentation will be available.
5. During first day of interaction a staff/research scholar of IASST will be attached with the individual candidate to acquaint with the institute and arrange audiovisual facility for presentation to be made in front of the interaction/interview committee of first phase.
6. Based on the first day interaction, all the candidates will be placed in order of merit solely on the presentation, and interaction will continue on the second day/phase with a panel of experts on broad range.

### **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 period in other organization before consideration of his/her joining, if selected.

### **(A) RECRUITMENT OF RESEARCH SCIENTISTS**

#### **Positions under DBT sponsored project entitled “Quality Control & Quality Assurance laboratory facility for the phytopharmaceutical mission for North East India”**

Institute of Advanced Study in Science and Technology (IASST) is looking for suitable candidates for the DBT sponsored project entitled “Quality Control & Quality Assurance laboratory facility for the phytopharmaceutical mission for North East India” to be implemented in the institute. The project activities are all-inclusive analysis of quality of herbal products/medicine and certification. Applications are invited for three positions of Research Scientists as below:

**1. Name of Post: Research Scientist** (One position) in the area of Microbiology/Biochemistry/Biotechnology.

**Pay:** Rs. 40,000 + 20% HRA per month.

**Educational Qualification and Experience:** M.Sc and Ph.D in Microbiology/biochemistry/Biotechnology with consistently good academic record, capable of carrying out research on analysis of microbial contamination in herbal products, classical & molecular method of microbial identification and all common technology followed in microbiology laboratory.

**2. Name of Post: Research Scientist** (One position) in Plant classical taxonomy/plant molecular taxonomy.

**Pay:** Rs. 40,000 + 20% HRA per month

**Educational Qualification and Experience:** M.Sc and Ph.D. in Plant classical taxonomy/plant molecular taxonomy with consistently good academic record capable of identification and taxonomic classification of medicinal herbs/shrubs/plants. The candidate is also expected to possess experience of molecular marker based identification of plants.

**3. Name of Post: Research Scientist** (One position) in Pharmacology/Natural product chemistry/medicinal chemistry/organic chemistry/analytical chemistry.

**Pay:** Rs. 40,000 + 20% HRA per month.

**Educational Qualification and Experience:** M.Sc and Ph.D. in Pharmacology/Natural product chemistry/medicinal chemistry/organic chemistry/analytical chemistry with consistently good academic record capable of carrying out research and analysis of herbal plants and formulation for bio-active principles, marker compounds and animal experiments.

**Desirable qualification (for all the 3 positions):** At least one year of PDF experience is desirable in the area mentioned above for each position. The candidates are expected to have ability to set up, run and maintain laboratory equipments for all different areas of extraction of quality of herbal extract/medicines. In post no. 2 (Plant taxonomy), the candidate are expected to possess knowledge on cultivation of medicinal herbs.

**Age:** Upper age limit of 40 years on the last date of receipt of application. It is relaxable for SC/ST/ Woman candidate as per Govt. rule.

**How to apply:** Eligible candidates may visit IASST website ([www.iasst.gov.in](http://www.iasst.gov.in)) and submit their applications online (Link: [iasst.res.in](http://iasst.res.in)) and also submit curriculum vitae (CV) through institute's email (ID: [apprecept@iasst.gov.in](mailto:apprecept@iasst.gov.in)) on or before 31<sup>st</sup> December, 2018. Only short listed candidates will be called for the interview. The candidate should bring their original mark-sheets, certificates and other credential at the time of interview. No TA/DA will be provided to the candidate for appearing the interview.

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

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

**Important Note:** All the three posts are purely temporary and coterminous with the project. The recruitment will be initially for a period of one year which may be extended periodically subject to satisfactory performance.

Registrar, IASST