भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर **| Indian Institute of Technology Bhubaneswar**

जटनी - 752050, खोर्धा, ओड़िशा, भारत **| Jatni - 752050, Khordha, Odisha, India**

Advertisement No. **IITBBS/FAC/Rolling-Advt/2024**   19 June, 2024

Rolling Advertisement for Faculty Recruitment

IIT Bhubaneswar invites applications from qualified Indian nationals including Persons of Indian Origin (PIO) and Overseas Citizen of India (OCI) with an established record of independent, high-quality research and commitment to teaching and research for faculty positions at the level of **Assistant Professor (Grade-I/II), Associate Professor, Professor.**

For further details, and online submission of application against this advertisement, please visit

 https://www.iitbbs.ac.in/index.php/faculty-rolling-advertisement-2024

This is a rolling advertisement. There is no last date and application can be submitted throughout the year. Applications will be processed periodically.

> *Note:*

> * *Applications submitted in response to the rolling advertisements nos. **Rectt/01/2019, Rectt/02/2019** and **IITBBS/FAC/MMR/Rolling-Advt/2023** will no longer be taken into consideration, hence those who applied in response to these advertisements are therefore requested to submit their applications through the new portal of this advertisement.*

MINIMUM QUALIFICATION

Ph.D. with first class or equivalent in the preceding degree in appropriate branch, with a consistently very good academic record and evidence of ability to pursue independent high quality research. University toppers at Bachelors and Masters Level are encouraged to apply.

EXPERIENCE

Professor:

A minimum of 10 years post-Ph. D teaching/research/industrial/professional experience of which at least 4 years should be at the level of Associate Professor in IITs, IISc Bangalore, IIMs, IISERs or at an equivalent level in any such Indian or foreign institutions of comparable standards.

The candidate should have demonstrated leadership in research in a specific area of specialization in terms of guidance of Masters and Ph.D. students, strong record of sponsored research, publications in reputed journals and referred conferences, patents, laboratory/course development and/or other recognized relevant professional activities.

Associate Professor:

At least 6 years post-Ph. D teaching/research/industrial/professional experience of which at least 3 years should be at the level of Assistant Professor Grade-I in IITs, IISc Bangalore, IIMs and IISERs or at an equivalent level in any such Indian or foreign institutions of comparable standards <u>OR</u> Senior Scientific Officer/Senior Design Engineer in a research organization or industrial enterprise.

The candidate should have demonstrated capability and adequate experience of independent research in terms of guidance of Masters and Ph.D. students, sponsored research, publications in reputed journals and referred conferences, patents, laboratory/course development and/or other recognized relevant professional activities.

Assistant Professor Grade-I:

Eligible candidates with at least 3 years post-Ph. D teaching/research/industrial/professional experience preferably in IITs, IISc Bangalore, IIMs and IISERs or at an equivalent level in any such Indian or foreign institutions of comparable standards (*excluding the experience gained while pursuing Ph.D),* may be considered for the position of Assistant Professor Grade-I. Candidates should be highly motivated towards teaching and research

and should have demonstrated research capabilities in terms of publications in reputed journals and referred conferences.

Assistant Professor Grade-II:

Eligible candidates with less than 3 years of relevant post-Ph. D experience (as described for Assistant Professor Grade-I), may be considered for the position of Assistant Professor Grade-II* with appropriate starting pay. Once selected in this position, the candidate will be considered for the post of Assistant Professor Grade-I upon gaining the required experience.

Appointment to these positions may be made on tenure track basis as per the decision of the 53rd IIT Council in its meeting held on 27th September, 2019 for implementation in all IITs.

The School-wise required **areas of specialization** include but are not limited to the following:

Sl. No.	School		Required areas of Specialization
1	School of Basic Sciences	Chemistry & Biosciences:	Inorganic Chemistry (Main group/ Bio-inorganic /Reaction mechanism / Organometallic Chemistry) Physical Chemistry (Electrochemistry)
		Physics:	Quantum Information and Technology; Semiconductor Device Fabrication, Non-linear and Quantum Photonics, Topological Phenomena in Condensed Matter Physics (Theory)
		Mathematics:	Theoretical Computer Science, Statistics and Data Science, Numerical Analysis & Scientific Computing, Financial Mathematics/ Optimization Techniques.
2	School of Earth, Ocean & Climate Sciences	Geology & Geophysics:	Ore Geology, Metamorphic Petrology.
		Ocean & Atmospheric Sciences (i.e., Climate Sciences):	Observations in Climate Sciences, Modelling & Data Assimilation, Planetary and Marine Boundary Layer
3	School of Electrical Sciences	Computer Science and Engineering:	Artificial Intelligence, Machine Learning, High Performance Computing Architecture, VLSI Design, Cloud Computing, IoT, Cyber security, Multimedia systems, Computer Vision, Augmented and Virtual Reality, Software Engineering, Cyber Physical Systems, Systems (Compilers, Operating Systems, Databases), Quantum Computing, Computational biology, Theoretical Computer Science
		Electronics and Communication Engineering:	Signal Processing, Optical, RF and Microwave, Opto-Electronics, VLSI Design, Semi-conductor Technology.
		Electrical Engineering:	Control Systems Engineering, Electrical Machines, High Voltage Engineering, Measurement & Instrumentation, Power System, Renewable Energy and Smart Grid.
4	School of Humanities, Social Sciences & Management	Economics:	Game Theory, Theory of Auction, Optimization and General Equilibrium
5	School of Infrastructure		**Environmental Engineering** (Air quality and Environmental Modelling, Water Treatment, Waste Management and Sewerage System, Environmental Impact Assessment and Environmental life cycle assessment (LCA), Emerging contaminant, Micro-pollutant and Organic Pollutant Analysis and Estimation), **Geotechnical Engineering** (Rock mechanics Tunnelling and underground space, Unsaturated soil mechanics and gas hydrates, Energy Geotechnics), **Structural Engineering** (Automation in construction technology, Digital construction Steel construction, Risk and reliability, Fire Engineering, Plasticity, fatigue and fracture, Impact mechanics),

		Transportation Engineering (Transport & Logistics [Preferably Maritime & Railway Logistics, Analytical Modelling of Pavement with a Strong Background in Engineering Mechanics, Transport Policy on Safety), **Water Resources Engineering** (Experimental and Computational Hydraulics, Contaminant Transport, Groundwater Modelling, Extreme Event Modelling, Ecohydrology, Hydroinformatics, Urban Hydraulics)
6	School of Mechanical Sciences	Gas Dynamics, Turbo machinery, Fundamental Turbulence, Cryogenics, Fuel Cell Technology, Nonlinear Dynamics, Bearing & Lubrication, Machine Fault Analysis & Diagnostics, Systems & Control, Mechatronics, Advanced Robotics, CAD/CAM and Automation, AR & VR in Manufacturing, AI & ML in Mechanical Engineering, Non-powder based Metal Additive Manufacturing, Micro and Nanoscale Manufacturing, Operations Research, Quality Control & Reliability.
7	School of Minerals, Metallurgical & Materials Engg.	Extractive metallurgy of ferrous, non-ferrous and rare-earth metals; Semiconductors: Synthesis, Device fabrication and characterization; Transmission Electron Microscopy; Magnetic materials; Integrated Computational Materials Engineering; Computational fluid dynamics in process metallurgy Computational mechanics in applied materials engineering; Physical metallurgy of steels; Mineral Processing; Recycling of materials; Atomistic simulation

SCALE OF PAY IN 7th PAY COMMISSION (Revised periodically as per GOI order)

Position	Pay Level	Minimum Pay in Pay Level	Approximate Gross Salary*
Professor	14A	Rs. 1,59,100	Rs. 2,93,301
Associate Professor	13A2	Rs. 1,39,600	Rs. 2,57,974
Assistant Professor Grade-I	13A1 (On completion of 3 Years of service in Pay Level 12 will be eligible for Pay Level 13A1)	Rs. 1,31,400	Rs. 2,42,974
	12	Rs. 1,01,500	Rs. 1,89,190
Assistant Professor Grade-II	11 (in case of more than 1 Year post-PhD experience)	Rs. 84,800	Rs. 1,59,150
	10 (in case of less than or Equal to 1 Year post- PhD experience)	Rs. 70,900	Rs. 1,34,147

* Calculated at the minimum of the scale which includes (Basic, DA, HRA, Transport allowance, Telephone allowance and NPS).

ALLOWANCES

1. The benefits such as HRA, LTC, Medical re-imbursement, Education Allowance for Children, and contribution towards National Pension System (NPS) etc. shall be as per the Institute norms.

2. Suitable accommodation will be provided on availability in a clean and green environment of the Institute Campus.

3. A Cumulative Professional Development Allowance (CPDA) of Rs. 3 lakhs for every block period of 3 years on reimbursement basis will be admissible to meet the expenses for: participating in International/National conferences; membership fees of professional bodies; book grant; telephone charges; contingency etc. as per Institute guidelines.

4. Seed Research Grant up to Rs. 20 lakhs to initiate Research Project in a chosen area.

5. Reimbursement of relocation expenses at the time of joining as per Institute norms where applicable.

General Instructions:

1. Applicants desiring to apply for more than one School should submit separate application for each School. Candidates will not require to register multiple times at the portal to apply for multiple positions. Applicants who have not been considered earlier against the old advertisements need to apply afresh.

2. **For the post of Assistant Professor, candidates' age should preferably not exceed 35 years.**

3. Experience and age limit will be reckoned as on last date of online submission of online application form.

4. Mere fulfilling eligibility criteria will not vest any right on any candidate for being called for interview.

5. Minimum requirement of experience may be relaxed in respect of outstanding candidates.

6. Degrees obtained by the candidate should have been awarded by a recognized University/ Institute. All Educational qualification certificates including the Date of Ph.D. Defense must be submitted/uploaded. All Experience certificates mentioning designation, pay and tenure must be duly signed and sealed by the employer.

7. Political and security clearance from Ministries of External Affairs and Home Affairs is necessary in every case for individuals with foreign passports.

8. The Institute reserves the right to call for interview only those candidates shortlisted based on their qualification, experience, research, publication records and requirements of individual academic departments, centres and school.

9. The Institute reserves the right to fill or not to fill positions in any of the above/and or any other specialization(s)/Department(s). The Institute has the right to set different as well as higher norms, while short-listing, considering the specific requirement of the departments. Based on the shortlisting criteria, applications will be processed. Only the shortlisted applicants will be contacted through the emails provided by them in the application form.

10. Applicants, called for interview, will be reimbursed to and fro air fare by economy class or II AC rail fare, from the nearest city of their residence in India by the shortest route. The **ticket for air travel** are required to be purchased ONLY from any of the three authorized travel agents viz **IRCTC, M/s Balmer Lawrie, M/s Ashoka Tours, and Travels (via website/ booking counters/office),** in line with GOI instructions. **Booking done from any other mode will not be admissible for claim.**

11. Applicants from abroad will, generally, be interviewed through video conferencing and no reimbursement for such applicants will be made. Applicants from abroad, but in India at time of Selection committee meeting, must attend the interview in person, if called.

12. No correspondence whatsoever will be entertained from applicants regarding conduct and result of interview and reasons for not being called for interview or selection.

13. **Applicants who are employed in Government, Semi-Government, Autonomous Body or Institution should send their applications through proper channel. Else, they will be required to produce a No Objection Certificate (NOC) from their employer at the time of interview.**

14. Applicant is solely responsible for the correctness of the information provided in the application. If found later, that any information given in the application is incorrect/false, the candidature/appointment is liable to be cancelled/terminated.

15. **IIT Bhubaneswar encourages participation of women in teaching and research. Hence women applicants are encouraged to apply for these positions.**

16. Candidates who obtained their doctoral degree from IIT Bhubaneswar should demonstrate clear evidence of complementary research independent of the IIT Bhubaneswar guide, and have at least three years of research/teaching experience outside IIT Bhubaneswar.

17. Most of the day to day facilities are available on the Campus including bank, a small shopping Centre, Kendriya Vidyalaya School (up to 10th standard) for children, medical unit, sports facilities and vast playground for field games. The institute has eight functioning clubs which also adds to the vibrancy of the

campus life. These are: Sah Astitva (animal Welfate Club), Niramay (Health Club), Parampara (Classical Dance Club), Avani (Gardening Club), Vaisharadya (Senior Citizen's Club), Feminine Fusion (Ladies Club), Aanand (Kids Activity Centre) and Vatsalya (Creche or Day Care Centre).

18. The Institute reserves the right to withdraw any advertised position(s) at any time without assigning any reason.

19. The Institute reserves the right to call only the requisite number of candidates for interview after shortlisting in terms of the Schools' requirement, candidates' qualification, suitability, experience and the status of decisions about the candidate in earlier selections.

20. The Institute reserves the right to fill or not fill any or all of the advertised posts as it may deem fit.

21. *Depending on requirement, interview may be conducted in select specializations only. However, exceptionally meritorious candidates in any area of specialization pertaining to the said specialization will also be considered.*

22. The candidate is responsible for the correctness of the information provided in the application. If it is found at a later date that any information given in the application is incorrect / false the candidature / appointment is liable to be cancelled / terminated.

23. The decision of the Institute in all matters of selection is final.

24. Canvassing in any manner would entail disqualification of the candidature.

25. **Reservation and Relaxation for SC/ST/OBC-NCL/PWD/ EWS applicants:** Reservation and relaxation are applicable as per GOI rules for SC, ST, OBC-NCL and PWD applicants. The benefit of reservation under Economically Weaker Section (EWS) can be availed upon production of an Income and Asset Certificate issued by authorized officials in prescribed format as per GOI norms. Candidates should submit their valid SC/ST/OBC-NCL/EWS/ Disability Certificate issued by the Competent Authority in the prescribed format along with the application form in support of their claim.

26. The application must be complete with full details of educational qualifications including year of obtaining Ph.D., date of defense and details as required in the online application portal providing a list of publications (with reprints of the two most significant publications in the last five years in which the candidate or his/her advisee is the primary contributor), teaching/ research/industrial experience, date of birth along with the names and contact details of at least three referees**.**

27. **All the applications should be submitted ONLY through the online portal. Hard copy or soft copy submission will NOT be accepted.**

28. For any query, please write to faculty.recruitment@iitbbs.ac.in or call 0674-7134491 between Monday to Friday from 09:30 AM till 05:45 PM.

HOW TO APPLY

Candidates possessing the requisite qualifications and experiences are requested to apply online at **https://www.iitbbs.ac.in/index.php/faculty-rolling-advertisement-2024** following the instructions therein. The online portal will allow the candidate to print the filled-in application after successful electronic submission. The portal will also allow editing after submission. Candidates are requested to upload PDF files of all degree certificates/testimonials/caste certificate/age proof certificate etc. as the file attachment as an appropriate place.

Registrar