



**भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद**  
**धनबाद – 826 004 (झारखण्ड), भारत**  
**Indian Institute of Technology (Indian School of Mines), Dhanbad**  
**Dhanbad – 826 004 (Jharkhand), India**

No. 411002/1/2017-Estt

Dated: 03 January, 2017

**Advertisement for Faculty Positions**

Indian Institute of Technology (Indian School of Mines), Dhanbad formerly known as Indian School of Mines, Dhanbad established in 1926, offers 4 Yr B.Tech degree in Computer Science & Engg, Chemical, Civil, Electrical, Electronics, Environmental, Mechanical, Mineral, Mining, Mining Machinery and Petroleum Engineering and 5 Yr integrated M.Tech /M.Sc (Tech.), 2 Yr M.Tech, 1 Yr M. Phil, 2 Yr MBA programs and Ph.D in the areas of Basic & Applied Sciences, Earth Sciences, Engineering, Humanities & Social Sciences and Management. Applications are invited from Indian nationals (from General, SC, ST & OBC categories) possessing excellent academic background throughout along with self-motivation to quality teaching and research for faculty positions at all levels for the following departments:

- |                         |                                   |                                  |
|-------------------------|-----------------------------------|----------------------------------|
| 1. Applied Chemistry    | 7. Civil Engineering              | 13. Humanities & Social Sciences |
| 2. Applied Geology      | 8. Computer Science & Engg.       | 14. Management Studies           |
| 3. Applied Geophysics   | 9. Electrical Engineering         | 15. Mechanical Engineering       |
| 4. Applied Mathematics  | 10. Electronics Engineering       | 16. Mining Machinery Engineering |
| 5. Applied Physics      | 11. Environmental Science & Engg. | 17. Mining Engineering           |
| 6. Chemical Engineering | 12. Fuel & Mineral Engineering.   | 18. Petroleum Engineering.       |

**Qualification, Experience and Pay Scale:**

Sl. No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification and Relevant Experience	Other requirements	Essential	Additional Desirable Requirements	Max. Age
1	Assistant Professor (On Contract) PB-3: Rs. 15,600-39,100 Academic Grade Pay of Rs. 6,000/- per month	(i) Candidates with very good academic record having Ph.D. degree but no experience & 1 <sup>st</sup> class in preceding degree  (Seven non-compounded advance increments for Ph.D. shall be given)	None		None	35 Years
		(ii) Candidates with very good academic record having M.Tech with 1 <sup>st</sup> class (only for engineering branches) and 1 <sup>st</sup> class in preceding degree  (Two non-compounded increments for M.Tech shall be given)	None		None	
		(iii) Candidates with very good academic record having Ph.D. degree and one year post Ph.D. experience & 1 <sup>st</sup> class in preceding degree.  (shall be placed with the minimum pay of Rs. 22,500/- with AGP of Rs. 7,000/-	(i) Two papers accepted for publication/ published in SCI/SSCI Journals#  Or  One patent; may be based on Ph.D. work.		None	

Sl. No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification and Relevant Experience	Other Essential requirements	Additional Desirable Requirements	Max. Age
2	Assistant Professors PB-3: Rs. 15,600-39,100 Academic Grade Pay of Rs. 8000/- per month	<p>(i) Candidates with very good academic record having Ph. D and three years' experience (excluding the period of Ph. D) &amp; 1st class in preceding degree.</p> <p>(Minimum pay in pay band to be fixed at Rs. 30,000/-)</p>	<p>i) 3 papers in SCI/SSCI journals in career # OR 2 papers in SCI/SSCI journals outside Ph. D work + One ongoing sponsored project for candidates from academia</p> <p>ii) One Ph.D. supervision ongoing/ 1 Patent/ Experience in Industry or R&amp;D Laboratory of repute/ Post Graduate projects supervision.</p> <p>iii) Contribution to Students Affairs or Laboratory Development</p> <p>iv) The above other essential requirements are relaxable for industry/ R&amp;D/ Post Doc. experience*</p>	None	No upper Age limit
		<p>(ii) Assistant Professors on completion of 3 years of service in PB-3 with AGP of Rs. 8,000/- shall move to PB-4 of Rs. 37,400-67,000 with Academic Grade Pay of RS. 9,000/- per month.</p>	<p>i) 5 papers in SCI/SSCI journals outside Ph.D. work + One ongoing sponsored project #</p> <p>ii) One Ph.D. supervision ongoing/ 1 Patent /Experience in Industry or R&amp;D Laboratory of repute/ Post Graduate projects supervision.</p> <p>iii) Contribution to Students Affairs or Laboratory Development</p> <p>iv) The above other essential requirements are relaxable for industry / R&amp;D experience.*</p>	None	

Sl. No.	Designation, Pay Band and Academic Grade Pay	Essential Qualification and Relevant Experience	Other Essential requirements	Additional Desirable Requirements	Max. Age
3	Associate Professors PB-4: Rs.37,400-67,000 Academic Grade Pay of Rs. 9,500/- per month.	Candidate with very good academic record having Ph. D degree and minimum of 6 years teaching/ industry/ research experience of which at least 3 years should be at the level of Assistant Professor/ Sr. Scientific Officer / Sr. Design Engineer & 1st class in preceding degree.  (Minimum pay in pay band to be fixed at Rs. 42,800/-)	i) 10 papers in SCI/SSCI journals in career #  ii) Two externally funded projects ongoing/completed in career  iii) Contribution to Students Affairs or Laboratory Development  iv) One Ph. D guided (sole/joint)  v) Supervising two or more students for Ph.D. / Preparing e-learning material/ strong liaison with industry/ High value projects.  vi) Academic outreach activities equivalent to two self-financed short term courses/equivalent projects.  vii) The above other essential requirements are relaxable for industry / R&D experience*	i) Involvement in TEQIP/SAP/ FIST/ Projects  ii) One or more patents.  iii) Starting new PG courses.	No Upper Age Limit
4	Professors PB-4: Rs.37,400-67,000 Academic Grade Pay of Rs. 10,500/- per month.	Candidate with very good academic record having Ph. D and a minimum of 10 years' experience of which at least 4 years should be at the level of Associate Professor & 1st class in preceding degree.  (Minimum pay in pay band to be fixed at Rs. 48,000/-)	i) 15 papers in SCI/SSCI journals in career #  ii) Three externally funded projects ongoing/ completed in career  iii) Contribution to Students Affairs or Laboratory Development  iv) Two Ph. D guided as sole or principal supervisor.  v) Supervising more than three students for Ph.D. / Preparing e-learning material/ strong liaison with industry/ Offering significant support to Institute management /High value projects.  vi) Academic outreach activities equivalent to two self-financed short term courses/equivalent projects.  vii) The above other essential requirements are relaxable for industry/R&D experience*	i) Involvement in TEQIP/SAP/ FIST/ Projects  ii) One or more patents  iii) Starting new PG courses	No upper Age limit

**Eligibility &Specialization:**

1	<p><b>Applied Chemistry:</b> For the post of Asstt. Professor: Master's degree in Chemistry/Applied Chemistry with specialization in Physical Chemistry/ Theoretical Chemistry/Computational Chemistry/ medicinal Chemistry/ Bio-organic Chemistry.</p> <p>For the post of Associate Professor: Master's degree in Chemistry/Applied Chemistry/ Industrial Chemistry with specialization in any branch.</p> <p>For the post of Professor: Master's degree in Chemistry/Applied Chemistry/ Industrial Chemistry with specialization in any branch.</p>
2	<p><b>Applied Geology:</b> M.Sc./M.Sc.Tech/Integrated M.Sc. Tech/M.Tech/M.S. in Geology/ Applied Geology with Ph.D. / D.Sc. in relevant field with specialization in Sedimentology, Petroleum Geology, Geomorphology, Quaternary Geology, Geo-statistics, Coal Geology, or any other areas of Geology/Applied Geology.</p>
3	<p><b>Applied Geophysics:</b> M.Sc. Tech. in Applied Geophysics/M.Sc. Tech. in Geophysics/M.Sc. in Geophysics/M.Sc. in Exploration Geophysics/M.Sc. in Applied Geophysics/M.Tech. in Geophysics/Integrated M.Sc.(Tech.) in Applied Geophysics/Integrated M.Tech. in Geophysical Technology with Ph.D. with specialization in Gravity &amp; Magnetic Methods, Geophysical Signal Processing, Seismic Methods, Well Logging, Electromagnetic Methods, Electrical Methods, Remote Sensing, Seismology, Magneto-telluric Methods.</p>
4	<p><b>Applied Mathematics:</b> Master's degree in Mathematics/Applied Mathematics/Mathematics &amp; Computing/Computer Science/Industrial Mathematics and Computing/Statistics/Applied Statistics/Statistics and Computing/Computer Application/Operations Research with Ph.D. degree in relevant discipline.</p>
5	<p><b>Applied Physics:</b> In all the areas of Physics including Theoretical, Computational and Experimental areas of Space Physics, Plasma Physics, Nuclear Physics, Particle Physics, Astrophysics, Biophysics, High Energy Physics, Solid State Physics, Thin Film Technology, Nano Science, Nanotechnology , Electronics, Theoretical Physics, Atomic and Molecular Physics, Laser Physics, Non-linear Optics, Fibre Optics, Photonics, Condensed Matter Physics, Spectroscopy, Health Physics and all other emerging areas of Physics.</p>
6	<p><b>Chemical Engg:</b> Ph.D with first class or equivalent at the preceding degree in Chemical Engineering with very good academic record throughout with specialization in Bioprocessing for Pharmaceutical and Health Care Technology, Carbon capture and Sequestration, Downstream Hydrocarbon &amp; Coal Processing Engineering, Electrochemical Energy Systems, Electrochemical Engineering; Energy Systems Engineering, Environmental Technology, Interfacial Science and Engineering, Membrane Science and Technology, Microfluidics and CFD, Modeling and Simulation, Polymers and Materials, Powder Technology &amp; Rheology , Process Dynamics and Control, Process Intensification, Process Systems Engineering, Reaction Engineering and Catalysis, Synthesis and Surface Chemistry of Functional Materials; Transport and Separation Processes.</p>
7	<p><b>Civil Engineering:</b> B.Tech. in Civil Engineering/Mining Engineering having M.Tech/Ph.D in relevant field with specialization in Structural Engg./Geotechnical Engg./Rock Engineering/ Transportation Engg./Water Resources Engg./Environmental Engg./RS &amp; GIS.</p>
8	<p><b>Computer Science and Engineering:</b> B.Tech/B.E./B.Sc. (Engg.) in Computer Science &amp; Engineering, Electronics Engg, Electrical Engg., Information Technology with M.Tech/M.E./M.S./Ph.D. in relevant field with specialization in any area of Computer Science &amp; Engineering.</p>
9	<p><b>Electrical Engineering:</b> B.E./B.Tech in Electrical Engineering/Electrical &amp; Electronics Engineering/Instrumentation/Power Electronics &amp; Drives with M.Tech/Ph.D in relevant field with specialization in Measurement Instrumentation/ Control System/Electrical Machines/Power Systems/Electrical Drives/Power Electronics/High Voltage/Energy System.</p>
10	<p><b>Electronics Engineering:</b> B.E./B.Tech/B.Sc. (Engg.) in Electronics and Communication Engg./Electronics and Instrumentation Engg./Electrical Engg./Electrical and Electronics Engg./Instrumentation and Control Engg/Computer Science &amp; Engg with Ph.D. in relevant field.</p> <p><b>Specialisation:</b> Microelectronics &amp; VLSI/Signal Processing &amp; Communication/ Instrumentation and Control/ Mechatronics/Embedded Systems/ RF and Microwave Engg./Microwave Photonics/Bio-medical Engg.</p>
11	<p><b>Environmental Science and Engineering:</b> B.Tech in Civil/Chemical/Mining/Environmental Engineering/Agriculture Engineering with M.Tech/Ph.D. in Environmental Engineering/Environmental Sc. &amp; Engg or Postgraduate and Ph.D. in Chemistry/Biotechnology/Microbiology/Botany. Teaching/Research/Industrial experiences with specialisation in Environmental Modelling, Air Pollution, Water Pollution, Environmental Chemistry, Solid Waste Management, Climate Change Environmental Microbiology, Eco-restoration.</p>

12	<b>Fuel and Mineral Engineering:</b> Ph.D with first class or equivalent at the preceding degree in the appropriate branch with specialization in Mineral Processing, Coal preparation, Extractive Metallurgy including Agglomeration, Fuel Engineering and Clean Coal Technology.
13	<b>Humanities and Social Sciences:</b>  <b>Philosophy</b> – M.A. in Philosophy/Ethics with Ph.D.
14	<b>Management Studies:</b> Ph.D. from any UGC recognized University/fellowship from IIMs/XLRI/MDI with first class or equivalent at the preceding degree in the appropriate branch with specialization in Managerial Economics & Econometrics, Accounting & Financial Management.
15	<b>Mechanical Engg:</b> B.Tech/B.E.in Mechanical/Manufacturing/Production Engg and M.Tech./M.E./M.S./M.Sc. Engg with specialization in any relevant field of Mechanical Engineering and Ph.D. in any field related to Machine Design/Thermal Engineering/Production Engg.
16	<b>Mining Machinery Engg:</b> B.E./B.Tech/B.Sc.( Engg.) in Mining Machinery Engg./Mechanical Engg./Electrical Engg. with M.E./M.Tech/Ph.D in Mining Machinery Engg./Mechanical Engg./Electrical Engg. with specialization in Machine Design/CAD/Maintenance Engg./Tribology/Automobile Engg./Material Science/Fluid Machines/Safety Engg./Electrical Machines/Power Electronics & Drives/Power System Engg./Instrumentation.
17	<b>Mining Engineering:</b> B.Tech./B.E./B.Sc. Engg. in Mining Engineering/Surface Mining with M.Tech./Ph.D. in Mining Engineering/Opencast Mining/Mine Planning & Design/Rock Excavation Engineering/Tunnelling & Underground Space Technology/Geomatics & Mine Surveying/Rock Mechanics/Mine System Engineering/Operation Research/Surface Mining/ Underground Coal Mining/Mine Ventilation/Environmental Engineering/Mine Planning/Mineral Economics/Geostatistics/Mine Safety Engineering/Mine Survey/Remote Sensing & GICS/Computer Applications in Mining. B.Tech./B.E./B.Sc. Engg. In Civil Engineering with M.Tech./Ph.D in Geomatics/GIS & Remote Sensing/Tunnelling & Underground Space Technology.
18	<b>Petroleum Engineering:</b> B.Tech. in Petroleum/Chemical/Petrochemical Engineering with M.Tech/Ph.D. in relevant field with specialization in Petroleum/Petrochemical/ Refining Engineering.

### **IIT(ISM) Campus**

Situated in the heart of the country's prime coking coal belt, 260 kms from Kolkata with a campus spread over 208 acres & fully residential, IIT(ISM) has all the facilities of world class academic institute. The campus layout is having picturesque landscape with clean and wide roads and pathways. The campus provides all essential amenities for community living like parks, faculty & staff clubs, shopping complex & canteen, Health Centre, Bank, ATMs, Post Office, playgrounds, swimming pool, etc. The present campus area is expected to be doubled through contiguous vacant land under process of taking over from the Jharkhand State.

- Nine decades of excellence in Science & Technology
- Well qualified and dedicated faculty and technical staff
- Well-equipped hostels with computers and internet
- State of art facilities for education and research
- Free Internet facility through 1 GBPS terrestrial links

### **General Conditions:**

Reservation for SC/ST/OBC/PH will be followed as per Govt. of India reservation policy.

The Institute reserves the right to cancel the recruitment without assigning any reason. The prescribed essential qualifications are minimum and the mere possession of the same does not entitle candidates to be called for interview. If the number of applications received in response to this advertisement is large, it will not be convenient or possible for the Selection Committee to interview all those candidates. So, the Screening committee of the Institute may restrict the number of candidates to be called for interview to a reasonable limit on the basis of qualifications and/or experience prescribed in the advertisement as per the specific requirement of the Deptt./Institute. No correspondence will be entertained with candidates who are not called for interview/ selected for appointment. **CANVASSING IN ANY FORM WILL RESULT IN DISQUALIFICATION OF CANDIDATURE.**

Legal disputes with Indian Institute of Technology (Indian School of Mines), if any, are restricted to the jurisdiction of Dhanbad courts only.

**Facilities for Faculty:**

1. Nomination to International Seminar as per GOI orders. Reimbursement of membership fees of National & International Professional Bodies as per IIT(ISM) rules.
2. Other allowances: Central DA (at present 132%), Transport Allowance, HRA, and Reimbursement of tuition fees (for 2 children) as per Government of India Rules.
3. Initiation grant of up to Rs. 10 lakhs for research project.
4. A cumulative Professional Development Allowance of Rs. 3 lakhs for every block period of 3 years.
5. Reimbursement of relocation charges up to a ceiling of Rs. 1.25 lakh for joining from India/abroad to Faculty members will be admissible.

IIT(ISM) is a residential Institute where all students and faculty members & staff reside inside the campus.

**How to Apply:**

Prescribed application forms may be downloaded from IIT(ISM) website (<http://www.ismdhanbad.ac.in>). and submitted with all necessary enclosures including **self-attested** copies of educational qualifications, caste certificate (if applicable), experience certificates (if any) etc. along with a crossed demand draft of Rs. 100/- drawn in favour of 'Registrar, IIT (ISM), Dhanbad'. The payment of requisite fee can also be made online through the link available on the IIT(ISM) website and the receipt generated should be attached with the application form.

Application forms complete in all respects must be submitted to Deputy Registrar (Estt.), Indian Institute of Technology (Indian School of Mines), Dhanbad, Dhanbad 826 004 (Jharkhand). Applications will be received any time during the year and will be considered from time to time till vacancies are filled up.

SC/ST/PH candidates are exempted from paying application fee. Candidates belonging to and applying under SC/ST/OBC Category shall be required to submit self-attested copies of the latest (not older than six months from the closing date of the advertisement) Caste Certificate must be issued by the competent authority (not below the rank of SDO/SDM) as per Govt. of India directives issued from time to time.

Similarly, Physically Handicapped candidates shall be required to submit proof of Physically Handicapped category issued by the competent medical authority.

**The Institute reserves the right to reject any or all applications or it may amend any of the clauses above as per the orders of the Competent Authority/ Govt. of India.**

Incomplete applications shall be summarily rejected and no communication in this regard shall be entertained.

Candidates called for the interview for the post of Professor, will be reimbursed to & fro railway fare limited to AC-2/Air Economy Fare (Air India only) by the shortest route as per rule. **No reimbursement of fare from outside India will be admissible. However, reimbursement of fare from the place of disembarkation in India to Dhanbad will be admissible in such cases.**

Candidates called for the interview for the post of Associate/Assistant Professor, will be reimbursed to & fro railway fare limited to AC-3 Tier Fare by the shortest route as per rules.

Dhanbad

Registrar