



INDIAN SCHOOL OF MINES, DHANBAD

(Deemed to be University under Section 3 of the UGC Act 1956 vide Notification No. F.11-4/67-U3 dated 18th September, 1967 of the GOI)

An Autonomous Institution of Government of India funded by MHRD

No. 411002/2012-Estt

28 September, 2012

Faculty Vacancies

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

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| 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 & Mining Machinery Engineering |
| 4. Applied Mathematics | 10. Electronics Engineering | 16. Mining Engineering |
| 5. Applied Physics | 11. Environmental Science & Engg. | 17. Petroleum Engineering. |
| 6. Chemical Engineering | 12. Fuel & Mineral Engineering. | |

Qualification, Experience, Pay Scale and Specialization required:

Post	Qualification	Experience	Maximum age limit (Years)	Pay scale
Assistant Professor	Ph.D. degree with first class or equivalent at the preceding degree in the appropriate branch.	Not mandatory	35 for General; 38 for OBC & 40 for SC/ST/PH	PB-3 (₹ 15,600-39,100) +AGP ₹ 6,000; Minimum Pay: ₹ 20,140 (₹16,900 for M.Tech.) +AGP+DA etc.
Associate Professor	(<i>Good academic record throughout & research publications</i>)	At least six years of teaching/ research/industrial experience in the relevant field/related areas out of which at least three years should be at the level of Assistant Professor or equivalent	N. A.	PB-4 (₹ 37,400-67,000) + AGP ₹ 9,000; Minimum Pay: ₹ 40,890 +AGP+DA etc.
Professor	Desirable: Ph.D. supervision and carrying out R&D projects/ Consultancy.	At least ten years of teaching/research/ industrial experience in the relevant field/related areas out of which at least four years should be at the level of Associate Professor or equivalent	N. A.	PB-4 (₹ 37,400-67,000) + AGP ₹ 10,000; Minimum Pay: ₹ 43,000+AGP+DA etc.

Notes:

- All qualifications, experience and age limit will be considered as on the closing date for receipt of applications.
- Ph.D. is compulsory for Science, Humanities and Management subjects.
- For Engineering disciplines, candidates with M. Tech. degree will be considered only for appointment as Assistant Professor with minimum AGP.

4. Higher starting pay may be offered to deserving candidates on recommendation of the selection committee.
5. Post wise reservation will be followed as per Government of India Reservation policy applicable to Centrally Funded Technical Institutions.

Eligibility & Specialization:

1	<u>Applied Chemistry:</u> M.Sc./M.Tech in Chemistry/Applied Chemistry with Ph.D. and specialization in Physical/Organic/ Theoretical Chemistry/Materials Chemistry/Biochemistry/ Polymer Chemistry/Applied Chemistry.
2	<u>Applied Geology:</u> M.Sc./M.Sc. Tech in Geology/Applied Geology or M.Tech. in Applied Geology/Geological Technology with Ph.D. in relevant field with specialization in Engineering Geology, Hydrogeology, Geostatistics, Sedimentology, Metamorphic petrology, Igneous Petrology, Structural Geology, Coal Geology, Ore Geology, Petroleum Geology, Mineral Economics, GIS or any other areas of Geology/Applied Geology.
3	<u>Applied Geophysics:</u> M.Sc. Tech in Geophysics/M.Sc. Geophysics/M.Sc. Exploration Geophysics/M.Sc. Applied Geophysics/M.Tech. in Geophysics with Ph.D. with specialization in Gravity & Magnetic Methods, Geophysical Signal Processing, Seismic Methods, Reservoir Geophysics, Well Logging, Electromagnetic Methods, Electrical Methods or Remote Sensing.
4	<u>Applied Mathematics:</u> M.Sc. in Mathematics/Statistics/Mathematics and Computing with Ph.D. degree. with specialization in Mathematics, Statistics, Operation Research, Object oriented Programming, Computer Organization, Operating System, Database Management System, Distributed Computing, Computer Networks, Neural Network, Language Professor, Image Processing or Computational Geometry.
5	<u>Applied Physics:</u> M.Sc. in Physics/Applied Physics/Electronics/Nanoscience/Nanotechnology/ Engineering Physics/Material Science/B.Tech. in Engineering Physics with Ph.D and research publications in the areas of specialization in Solid State Physics, Thin Film Technology, Nano Science, Nanotechnology , Electronics, Theoretical Physics, Atomic and Molecular Physics, Laser Physics, Non-Linear Optics, Fibre Optics, Photonics, Spectroscopy, Nuclear Physics, Particle Physics, High Energy Physics, Astrophysics, or Biophysics.
6	<u>Chemical Engg.:</u> B.Tech. in Chemical Engg with M.Tech./Ph.D. in Chemical/Relevant field and/or teaching/research/industrial experience in chemical industry/applications with specialization in Heat & Mass Transfer, Fluid Mechanics, Reaction Engineering, Chemical Engineering, Thermodynamics, Advanced Separation Technology, Chemical equipment Design, CFD & CAP, Fluidization, Plant Design, Instrumentation and Process Control, Petroleum Refining and Petrochemical, Fuel and Energy or Corrosion Engineering.
7	<u>Civil Engineering:</u> B.Tech in Civil Engineering with M.Tech./Ph.D. in Civil Engineering.
8	<u>Computer Science and Engineering:</u> B.Tech. in Computer Science & Engg., Electronics Engg., Electrical Engg., Information Technology with M.Tech., or Ph.D. in relevant field with specialization in VLSI design, High performance computing, Computer organization and architecture, Wireless networks, Distributed computing, Cloud Computing, Soft computing, Bioinformatics, Computational geometry, Embedded systems, Natural language processing, Information & coding theory, Advanced Algorithms, Pattern recognition, combinatorics and graph theory, Multimedia systems or Artificial intelligence.
9	<u>Electrical Engineering:</u> B.Tech. in Electrical Engineering/ Electrical & Electronics Engineering with M.Tech/Ph.D in relevant field and with specialization in Electrical Machines & Drives, Power Electronics, Measurement & Instrumentation, Control Systems, Power Systems or High Voltage Engineering.
10	<u>Electronics Engineering:</u> B.Tech. in Electronics/Electrical Engineering with M.Tech./Ph.D. in relevant field with specialization in Electrical and Electronic Instrumentation/ Instrumentation and Control/ Micro-Controller and Imbedded System/ Fiber Optic Communication/ Opto-Electronics Materials/ VLSI.

11	Environmental Science and Engineering: B.Tech. in any discipline with M.Tech./Ph.D. in Environmental Science and Engineering or B.Tech. in Environmental Engineering with M.Tech./Ph.D. in relevant field or Post-Graduate and Ph.D. in Remote sensing & GIS/Post Graduate and Ph.D. in Social Sciences, Teaching/Research/Industrial Experiences with specialization in Environmental Modelling, Remote Sensing & GIS, Environmental Economics, Geotechnical Engineering or Social Sciences.
12	Fuel and Mineral Engineering: B.Tech. in Mineral/Chemical/Mechanical/Metallurgical/Mining Engineering or allied discipline with M.Tech/Ph.D. in relevant field and/or teaching/research/industrial experience in coal preparation/mineral beneficiation with specialization in Mineral Processing, Coal Preparation, Solid Fuel Engineering, Modeling and Simulation or Extractive Metallurgy including Agglomeration.
13	Humanities and Social Sciences: M.A./M.Phil. in Philosophy/English with Ph.D. and with good academic record and proven interest/publications with specialization in Ethics, Applied Ethics, Human Rights, Engineering Ethics, Scientific Ethics, English Literature, Literatures in English, Comparative Literature, Translation Studies, Cultural Studies or Gender Studies.
14	Management Studies: Ph.D./fellowship from IIMs/XLRI/MDI with first class or equivalent at the preceding degree in the appropriate branch with specialization in Marketing Management/Managerial Economics & Econometrics. However, the requirement of Ph.D. degree may be relaxed in case of candidates possessing M.Tech. degree in Industrial Engineering and Management.
15	Mechanical Engg & Mining Machinery Engg. For Mechanical Engg: B.Tech in Mechanical Engg with M.Tech/Ph.D. in relevant field . For Mining Machinery Engg.: B.Tech. in Mining Machinery Engg./Mechanical Engg. With M.Tech./Ph.D. in Mining Machinery Engg./Mechanical Engg.. Specialisation: CAD/CAM, Machine Design, Thermal Engg., Robotics, Fluid Mechanics & Fluid Machines, Maintenance Engg, Mining Machinery, Manufacturing Engg. or Production Engg.
16	Mining Engineering: B.Tech./B.E./B.Sc. Engg.(4yrs) in Mining Engineering/Mining Machinery/Surface Mining/Civil Engineering with M.Tech/Ph.D. in Mining Engineering/Opencast Mining/Mine Planning & Design/Rock Excavation Engineering/Underground Space Technology/Geomatics & Mine Surveying/Rock Mechanics/Mine Safety Engineering/ Underground Coal Mining/Underground Metal Mining/Mine & Mineral Economics/Mine Ventilation/Computer Applications in Mining.
17	Petroleum Engineering: B.Tech. in Petroleum/Chemical/Mechanical/Petrochemical Engineering with M.Tech./Ph.D. in relevant field with specialization in Petroleum/Chemical /Mechanical/Petrochemical/Refining Engg.

ISM Campus

Situated in the heart of the country's prime coking coal belt, 260 kms from Kolkata with a campus spread over 208 hectares fully residential, 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, Staff & Faculty clubs, shopping complex & canteen, Health Centre, Bank, ATM, Post Office, playgrounds, swimming pool (under construction), etc. The present campus area is expected to be double through contiguous vacant land under process of taking over from the Jharkhand State.

- More than eight 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

The number of posts to be filled up may vary. 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 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 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 ISM rules.
2. Other allowances: Central DA (at present 72%) Transport Allowance, HRA, Reimbursement of tuition fees (for 2 children) upto Rs. 1,000/- p.m. per child.
3. Initiation grant of upto Rs. 10 lakhs for research
4. A cumulative Professional Development Allowance of Rs. 3 lakhs for every block period of 3 years.

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

Prescribed application forms may be obtained from the office of the **Deputy Registrar (Estt), Indian School of Mines, Dhanbad-826 004** by sending a crossed demand draft of Rs.100/- drawn in favour of **Registrar, Indian School of Mines** , along with a self-addressed and stamped (Rs.50/-) envelope of 30 cmx12cm size. Candidate shall be required to submit attested copies of the latest (not older than six months from the closing date of the advertisement) Cast Certificate issued by the competent authority (not below the rank of SDO/SDM) as per Govt. of India directives issued from time to time. Similarly, shall be required to submit proof of Physically Handicapped category issued by the competent medical authority. Candidates called for the interview will be reimbursed to & fro railway fare limited to AC-2 for the post of Professor and AC-3 for all other posts by the shortest route as per rule.

Application form may also be downloaded from the institute's website <http://www.ismdhanbad.ac.in> and submitted with necessary fee of Rs. 100/- in the form of Demand Draft drawn in favour of **Registrar, Indian School of Mines**, payable at Dhanbad to the **Deputy Registrar (Estt.), Indian School of Mines, Dhanbad – 826 004**. SC/ST/PH candidates are exempted from paying any application fee. Those who have already applied against earlier Advt. dated 8.02.2012 after 1.4.2012 need not apply against this Advt. However, they may download the application form and send their updated Bio-Data. They need not pay application fee again. **Applications will be received any time during the year and will be considered from time to time till the vacancies are filled up. 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.

Advt. No. 411002/2012-Estt.

Date: 28 Sept. 2012

[Col. (Retd.) M.K. Singh]

Registrar