



Indian Institute of Technology Kharagpur

1) Faculty Openings

IIT Kharagpur, an Institute of national importance, is the first and largest in the chain of fifteen IITs engaged in teaching, research and development requires high quality manpower. The Institute invites application from Indian nationals, possessing excellent academic background, commitment to quality teaching and potential for carrying out outstanding research.

This advertisement is made as per revision of pay of teaching staff in Centrally Funded Technical Institutions following the pay revision of the Central Government employees on the recommendation of 6th Central Pay Commission.

2) Qualifications for the post of

Professor, Associate Professor and Assistant Professor: Ph.D. with first class at the preceding degree or equivalent in the appropriate branch with a very good academic record throughout.

3) Experience for the post of

Professor : A minimum of 10 years' teaching / research / industrial experience of which at least 4 years should be at the level of Associate Professor in IITs, IISc Bangalore, IIMs, NITIE Mumbai and IISERs or at an equivalent level in any such other Indian or foreign institution/institutions of comparable standards.

Associate Professor: A minimum of 6 years teaching / research / industrial experience, of which at least 3 years should be at the level of Assistant Professor or equivalent positions in IITs, IISc Bangalore, IIMs, NITIE Mumbai and IISERs or in any such other Indian or foreign institution/institutions of comparable standards.

Assistant Professor: At least 3 years teaching / research / industrial experience, excluding however, the experience gained while pursuing Ph.D.

Candidates with less than three years of experience may be put on tenure track for the regular post of Assistant Professor.

4) Scale of Pay

Professor: Pay Band-4 (Rs.37400-67000) with AGP of Rs. 10500/- per month. For direct recruits, minimum pay in the Pay Band to be fixed at Rs. 48000/-

Associate Professor: Pay Band-4 (Rs.37400-67000) with AGP of Rs. 9500/- per month. For direct recruits, minimum pay in the Pay Band to be fixed at Rs. 42800/-

Assistant Professor: Pay Band-3 (Rs.15600-39100) with AGP of Rs. 8000/- per month. For direct recruits, minimum pay in the Pay Band to be fixed at Rs. 30000/-

plus allowances as admissible to Central Government employees.

Reservation: Without any compromise on qualification, experience and competence, reservation as per Government of India rules is available only at entry level positions of Assistant Professor. However, in recruitment of faculty posts in subjects other than science and technology, reservation of 15%, 7½% and 27% for SCs, STs and OBCs respectively shall also be applied in full including for the posts of Associate Professors and Professors.

5) Academic reimbursements and other incentives

- a) Initial grant up to a maximum limit of Rs. 5 lakhs for carrying out research projects.
- b) A cumulative Professional Development Allowance of Rs. 3.0 lakhs for every block period of 3 years (Rs. One lakh per year) may be made available to every member of the faculty on reimbursable basis to meet the expenses for participating in both national and international conferences, paying the membership fee of various professional bodies and contingent expenses.
- c) An additional amount of Rs. 50,000/- is being given from the SRIC fund to the faculty members who is the Principal Investigator of a Project amounting at least Rs. 15,00,000/- and has at least three Published Papers in referred journals in the preceding three years.
- d) Reimbursement of relocation charges from within India to the faculty members at the time of their joining.
- e) Interest free soft advance of Rs. 50,000/- to the newly recruited faculty members.
- f) Honorarium of Rs. 15,000/- per month to the teachers who have obtained Bhatnagar Award/Honorarium of Rs. 15,000/- per month to teachers who are fellows of at least two National Academics.

6) Accommodation

Suitable residential accommodation as per rules will be provided on the Campus of the Institute on joining the Institute.

7) Interested candidates may apply enclosing

- a) Curriculum Vitae
- b) List of Publications (with reprints of important publications) and patents
- c) Department / Centre / School at which the candidate proposes to work
- d) Names and Addresses (with e-mail address and fax numbers) of at least three referees
- e) Specific Contributions to teaching, research, designs, projects, and students welfare activities.
- f) List of best publications (up to **5** for applications for the position of Assistant Professor and up to **10** for the position of Associate Professor/Professor) along with impact factor and citations.
- g) Any other details relevant to the candidature

8) Notes

- Minimum requirement of experience may be relaxed in respect of outstanding candidates.
- Mere eligibility will not vest any right on any candidate for being called for interview. The decision of the Institute in all matters will be final. No correspondence will be entertained from the candidates in connection with the process of selection / interview. Canvassing in any manner would entail disqualification of the candidature.
- The Institute reserves the right to call only the requisite number of candidates for interview after shortlisting with reference to the candidate's qualification, suitability, experience, etc.

- Ph.D. qualification has been waived in case of recruitment of faculty at the entry level (Assistant Professor) for the Department of Architecture & Regional Planning, School of Medical Science & Technology and Rajiv Gandhi School of Intellectual Property Law.
- The candidates should be preferably below 35 years of age for the post of Assistant Professor
- The Institute reserves the right to fill or not to fill any or all the posts advertised.
- **Those who have applied in response to our earlier advertisement (No. R/6/2009) need not apply again and their applications will be considered as per requirement of sixth central pay commission along with the applications received against this advertisement. However, they should update their application by providing information under 7(b), 7(e) and 7(f) above.**
- Candidates possessing the requisite qualification & experience may submit their application on the prescribed form to the **Assistant Registrar, E-III, Indian Institute of Technology, Kharagpur – 721302 (email : recsec@adm.iitkgp.ernet.in)**
- **Last date of receiving application is 21st December 2009.**

Download Application Form

Application form can be downloaded from the Institute website (www.iitkgp.ac.in/topfiles/faculty_top.php). **The candidates applying from Government Organizations and Public Sector Undertaking should have their applications duly forwarded by competent authority.** Based on the need of the Department / Centre / School concerned, efforts will be made to take a decision at the earliest.

For further details contact

Assistant Registrar, E-III
 Indian Institute of Technology
 Kharagpur – 721302, India.
 Phone : 03222-282128 / 282135 / 282137
 Fax : 03222-282020
 Email : asregre@adm.iitkgp.ernet.in

Candidates may also contact the Heads of various Departments / Centres / Schools. Their e-mail and postal addresses are on the Institute website.

SPECIALISATIONS

Aerospace Engineering

Aerodynamics, Propulsion, Flight Mechanics and Controls, Aircraft Design and Optimization.

Agricultural and Food Engineering

Farm Machinery and Power, Soil and Water Conservation Engineering, Post Harvest and Food Engineering.

Architecture and Regional Planning

Architectural Design, Urban and Regional Planning, Housing, Building Science, Visual Communication and Product Design, Infrastructure Planning and Design, Environmental Planning and Design.

Biotechnology

Computational Biology, Transgenic Plants and Animals, Cellular and Molecular Biology, Tissue Engineering, Bio-nanotechnology, Molecular Biophysics, Molecular Microbiology, Genetics, Immunotechnology, Biochemical Engineering, Biosensor, Neurobiology, Genomics and Proteomics.

Chemical Engineering

Process Synthesis and Equipment Design, Petroleum Refining and Petrochemicals, Transport Phenomenon, Interfacial Phenomenon, Particulate Technology, Separation Science and Technologies, Thermodynamics and Reaction Engineering, Fuel and Mineral Processing, Process Dynamics and Control, Multiphase Flow, Industrial Pollution Control, Biochemical Engineering, Optimization Techniques in Chemical Engineering, Polymer Engineering, Advanced Materials Engineering, Nano Science and Technology.

Chemistry

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Biochemistry, Polymer Chemistry, Materials Chemistry, Analytical Chemistry, Chemical Physics, Computational Chemistry, Physical Organic Chemistry.

Civil Engineering

Structural Engineering, Geotechnical Engineering, Hydraulics and Water Resources Engineering, Environmental Engineering, Transportation Engineering.

Computer Science and Engineering

Computer Architecture, Operating Systems, Computer Networks, Computer Aided Design and VLSI, algorithms, Theoretical Computer Science, Data Base Management Systems, Programming Languages, Multimedia, Image Processing, Compiler Technology, Speech and Natural Language Processing, Artificial Intelligence, Software Engineering, Parallel and Distributed Systems, Information Security, Cryptology.

Electrical Engineering

Machine Drives, Power Electronics and Power Systems Engineering, Energy Systems: Conventional and Non-Conventional, Control Engineering, Instrumentation, Signal and Image Processing, Distributed Systems.

Electronics and Electrical Communication Engineering

RF Systems Engineering, Telecommunication Systems / Networks, Wireless and Optical Communication Systems and Networks, Opto-electronics & Integrated Optics, Micro / Nano-Electronics, Semiconductor Technology, MEMs, VLSI Circuits Computer Vision, Signal and

Image Processing, Multimedia, Embedded Systems, Photonics and Optical Communication.

Geology and Geophysics

Petroleum Geophysics with specialization in Borehole Techniques, Theoretical Geophysics, Remote Sensing and Digital Image Processing, Mathematical Geophysics with specialization in Flow Processes, Paleontology with specialization in Invertebrate Paleontology, Mineralogical Spectroscopy with application to Planetary Sciences, Magnetotelluric.

Humanities and Social Sciences

Economics (Econometrics, Mathematical Economics, Financial Economics, Developmental Economics, Environmental Economics), English (English and Communication Studies, Indian English Writing, American Literature, Post-modernism and Post-colonial Literature), Human Resource Management (Human Resource Development and Management, Industrial Relations), Philosophy (Logic, Ethics).

Industrial Engineering and Management

Industrial Engineering, Ergonomics / Human Factors Engineering, Worksystem Design, Operations Research, Softcomputing, Supply Chain Management, Production Planning and Control, Inventory Control and Materials Management, Quality Engineering, Safety Engineering, Product Development, MIS, Software Engineering.

Mathematics

Algebra, Analysis, Discrete Mathematics, Differential Equations, Numerical Analysis, Theoretical Computer Science, Topology and Statistics.

Mechanical Engineering

Manufacturing Science and Technology, Thermal Science and Engineering, Applied Mechanics, Simulation and Control, Smart Structures, Tribology, Fluid Drives and Control, Condition Monitoring, Industrial Automation and Robotics, Mechatronics, Accoustics and Vibration, Engineering Design.

Metallurgical and Materials Engineering

Physical / Mechanical Metallurgy, Process Metallurgy, Modelling, Ferrous Production & Steel Technology, Advanced Ceramics and Powder Metallurgy, Electronic Materials (processing and characterization), Nano-Materials and Nano-Engineering, Magnetic Materials, Composites & Nano-Composites, Thin Films, Surface Engineering, Polymer Engineering and other areas of Metallurgical and Materials Engineering.

Mining Engineering

Underground Coal and Metalliferous Mining, Surface Mining, Rock and Geo Mechanics, Mining Machinery, Economics of Mineral Enterprise, Quality Control, Underground Space Design, Mine Planning, Geomatics and Remote Sensing, Petroleum Technology, Mineral Processing, Mine Ventilation and Climate Control, Mine Electrical Engineering, Oil and Gas Well Engineering, Safety Engineering, Disaster Management, Offshore Mining, Mine Environmental Engineering, Bulk Mineral Handling / Transportation, Petroleum and Mineral Trade.

Ocean Engineering and Naval Architecture

Marine Hydrodynamics, Marine Structures, Marine Design and Production, Coastal Engineering, Oceanography and Wave Modeling, Offshore Engineering, Port and Harbour Engineering, Offshore Energy, Marine Acoustics.

Physics and Meteorology

Condensed Matter Physics, Nuclear Physics, Theoretical Physics, Photonics, Complex Systems.

Centre for Education Technology

Instructional System Design, Educational Evaluation and Measurements, Cognition and Learning, E-Learning, Distributed Learning, Learning Technologies, Network Technologies, Digital Audio, Digital Video, Multimedia Systems, Speech Processing, NLP, Image Compression.

Centre for Oceans, Rivers, Atmosphere And Land Sciences

Oceanography, Climate and Atmospheric Modeling, Remote Sensing, Hydrology, Earth Sciences, Marine Science, Space Technology.

Cryogenic Engineering

Cryogenic Processes and Equipment : Cryophysics and its Applications; Cryogenic Mass Transfer and Separation Technology.

Materials Science

Ceramics, Inorganic / Organic Semiconductor and Allied Materials, Bio-Materials.

Reliability Engineering

Software Reliability, Reliability Design, Probabilistic Risk & Safety Analysis, Failure Analysis of Engineering System, Life Testing and Estimation, RAMS for Maintaining System Reliability Modeling and Analysis.

Rubber Technology

Rubber and Polymer Science and Technology.

Rural Development

Participatory Rural Planning and Management, Tribal Development and Social Welfare, Development and Transfer of Rural Technology, Management of Rural Resources.

G. S. Sanyal School of Telecommunications

Wireless Communications and Networks, Fiber Optic Communications, Satellite Communications, RF Engineering, Detection and Estimation Theory, Signal Processing, Telecommunication Circuits, Telecommunication Network Planning, Network Management, Network Security, Mobile Computing.

Rajiv Gandhi School of Intellectual Property Law

Public Law, Business Law and Industrial Law, Family Law, Trade and Taxation Law, Procedural Law.

Ranbir and Chitra Gupta School of Infrastructure Design and Management

Transportation Engineering (Planning, design, operation and management of highways, airport and seaport infrastructure), Environmental Engineering (Planning, design, operation and management of water supply and waste management system, environmental impact assessment), Facilities Infrastructure (Urban infrastructure planning and design, facility programming and specialized building design, building automation systems design, building management systems, regional infrastructure planning and construction), Power Systems (Planning, design, operation and management of thermal, hydel and nuclear power plants, renewable power plants, power generation, transmission; and distribution, power system planning and reliability), Infrastructure Project Management.

School of Information Technology

Information Systems, Software Engineering, Database Technology, Distributed Systems, Internet Technologies, Computer Security, E-commerce, E-learning, Human Computer

Interaction, Multimedia Systems, Computer Vision, Image Processing, Mobile Computing, Adhoc and Sensor Networks, Ubiquitous Computing, VLSI Design.

School of Medical Science and Technology

Medical Imaging and Image Processing, Medical Statistics and Pattern Recognition, Medical Biotechnology, Medical Instrumentation, Clinical Research, Biomaterials and Tissue Engineering, Proteomics and Devices, Drug Design and Drug Research, Genetics.

School of Water Resources

Land and Water Resources Engineering, Environmental Engineering, Hydrology, Water Management.

Vinod Gupta School of Management

Organizational Behaviour and Human Resources, Strategy, Information Systems, Finance, Business Communications, Business Law, Economics, Marketing, Operations Management, Quantitative Methods.

Advt. No. R/8/2009 dt. 19-11-2009

Registrar