



संस्थापन सेवाएं (भर्ती) / Establishment Services (Recruitment)
भारतीय प्रौद्योगिकी संस्थान रुड़की / Indian Institute of Technology Roorkee
रुड़की-247667 / Roorkee 247667 (उत्तराखण्ड / Uttarakhand)
Tel : 01332- 284563, Email: recruitment@iitr.ac.in

संख्या:भा0प्रौ0सं0 / (भर्ती) / ई-5310
No.IITR/Rect./E-5310

दिनांक: 18, अगस्त 2017
Dated: 18 August 2017

The Institute invites nominations from self, donor of the endowment, or Head of an Institution/organization, from Indian Nationals who are exceptionally bright and motivated with an established record of high quality research and commitment to teaching for the positions of Chair Professor in the Institute. The positions available are as under:

Sl. No.	Sponsoring Agency	Area of Specialization	Tentative Location of Chair (Deptt./Centre)	No. of Chair
1.	Indian Railways	Bridge Engineering	Civil Engg.	01
2.	Indian Railways	Dynamic of Rail Vehicle System	Mechanical & Industrial Engineering	01
3.	Rural Electrification Corporation Ltd.	Electrical Engineering	Electrical Engineering	01
4.	Ministry of New and Renewable Energy	Renewable Energy	Alternate Hydro Energy Centre	01
5.	Ministry of Shipping Road Transport and Highways	Development of Highway System in the Country	Centre for Transportation System	01
6.	Ministry of Water Resources, GoI	Water Resources	Water Resources Development & Management	01
7.	Jaiprakash Sewa Sansthan, New Delhi	Hydro Power	Electrical Engineering/ Alternate Hydro Energy Centre/ Water Resources Development & Management	01
8.	North Eastern Electric Power Corporation Ltd. (NEEPCO)	R&D teaching and training in the area of the Indian Power Sector in the country	Electrical Engineering/ Water Resources Development & Management/ Alternate Hydro Energy Centre	01
9.	Ministry of Labour & Employment	Construction Materials and Technology and Real Estate	Civil Engineering	01
10.	Shamsher Prakash Foundation, Rolla MO 65401 (USA)	Soil Dynamics and Geotechnical Earthquake Engineering	Civil Engineering/ Earthquake Engineering	01

Chair Professor may be assigned to a relevant department/Centre as per the objectives of the Chair. Chair positions may be offered to following individuals who hold Ph.D. Degree:

- (i) Professor on regular cadre working in the Institute (IIT Roorkee) who have been selected through normal selection process.
- (ii) Outside Professionals, on deputation, serving in their Organization on pay scales equivalent to Professor
- (iii) Retired Professionals/Professors who served their employer prior to retirement in a pay scale equivalent to that of Professor.

NOTE:

An outstanding engineer/technologist working in industry and with established reputation, and who has made significant contribution to knowledge but not having a Ph.D. degree could also be considered. Such appointment will be made only sparingly and in extremely deserving cases as per IIT Roorkee rules.

The Honorarium and/or pay in respect of Chair positions will be as under:

Award of category	Category of eligible candidates	Source of pay	Perks for attending National/ International Conferences (INR in lacs/ year)	Honorarium in addition to pay in INR/pm	Contingency in INR/pm
(i)	Professor in the Institute (IIT Roorkee)	MHRD	1.00	30,000	20,000
(ii)	Outside Professionals serving in the pay scales equivalent to Professor	Chair Endowment	1.00	Nil	20,000
(iii)	Retired Professors/Professionals who served in the pay scales equivalent to Professor	Chair Endowment	1.00	30,000	20,000

The current pay scale of Professor is as under:

Professor PB-4 (Rs.37400-67000) with AGP of Rs.10500/- p.m. for direct recruits, minimum pay in the Pay Band to be fixed at Rs. 48000/- p.m.

These Professorial Chairs may be awarded to any category of eligible candidates, mentioned in the above Table.

Note: (a) Salary shall be paid as per Institute rules.

- (b) Liability on Retirement benefits shall be paid only from the endowment fund for Award in respect of the candidate from award category (2).
- (c) In certain existing Chairs where the funds are insufficient, persons under Category 1 only may be considered for the award, however Contingency and Perks will not be payable.
- (d) Chair Professor is allowed to undertake consultancy work, and sponsored research. However, in this regard, IIT Roorkee rules for regular faculty/faculty on deputation to IITR/re employed faculty, as the case may be, shall be applicable.
- (e) Chair Professor is entitled to avail leave as applicable to regular faculty/faculty on deputation to IITR/re-employed faculty as the case may be.

Award of Chair Professor shall be made normally for 3 years or upto 68 years of age whichever is earlier. However, he/she may also be considered for another tenure of 3 years. Applicants should be less than 68 years of age **and should be available for clear 2 years to serve on the Chair**. In the case of outstanding individuals who are physically fit, age limit may be relaxed upto 70 years of age.

Please see the Objective of the Chairs at **(Annexure-I)**.

Nominations may be submitted on the prescribed application form which may either be downloaded from the website of the Institute www.iitr.ac.in or www.iitr.ernet.in or obtained from Superintendent, Establishment (A) Section, IIT Roorkee, Roorkee- 247667.

Last date

The completed application should reach the Institute by **September 18, 2017** at the address given below:

Assistant Registrar (Recruitment)
Indian Institute of Technology Roorkee,
Roorkee- 247 667
Uttarakhand, INDIA
Email: recruitment@iitr.ac.in

Dated: 18.08.2017

Dean of Faculty Affairs

OBJECTIVES OF THE CHAIRS

(1) Indian Railways

Bridge Engineering

The main objective of the Chair is to promote research and development in the area of Bridge Engineering. An important activity related to the Chair will be dissemination of advanced knowledge and technology transfer.

(2) Dynamics of Rail Vehicle Systems

The main objective of the Chair is to promote research and development in the area of Dynamics of Rail Vehicle Systems. An important activity related to the Chair will be dissemination of advanced knowledge and technology transfer.

(3) Rural Electrification Corporation Ltd.

The Promotion and development of new and breakthrough technologies in the area of rural electrification which would ensure availability of electricity on affordable terms and sustainable manner to the rural population in India and will also enable reduction in Aggregate Technical & Commercial losses.

Professor so appointed to the Chair shall:

- Coordinate effectively and meaningfully with the concerned departments and other agencies with a view to promote development of New and Breakthrough technologies in different aspects of rural electrification covering generation, distribution, transmission including development and harnessing of new and renewable energy suitable to Indian rural conditions.
- Contribute to the deeper understanding and dissemination of knowledge in respect of recent technological advances in the area of rural electrification, conduct research and preferably publish results in leading International and National Journals etc.
- Establish long term association between REC and IITR for research and development, Consultancy as per IITR norms, academic interaction and exchange of technical and research information on power generation, distribution etc. on rural electrification, including development of viable power distribution business models for rural areas.
- Assist REC in meaningful harnessing/deployment of New Technologies thus developed to promote development of sustainable power delivery network in rural areas aiming at availability, affordability and accessibility.

(4) Ministry of New and Renewable Energy

- To provide a platform to top quality higher education experts in renewable energy field for India or of Indian origin desirous of working at the forefront of Renewable Energy related sciences, engineering, technology, legal framework, IPR issues and other policy related aspects with a focus on thrust areas identified by the Ministry in its R&D policy to act as focal point for renewable energy education in the institutions.
- To develop a community of educational with diverse backgrounds, united by intellectual curiosity, and drive to develop and undertake renewable energy course and research on important challenges facing the country today in all round development of Renewable Energy utilization in the country.
- To find solutions, through scientific research, to the practical problems of Renewable Energy and their application in field, leading to visible improvement in the energy security of the country.
- To utilize and expand the resources available in the universities and other educational institutions of the country, to address complex energy security aspects of the country with focus on new and renewable energy applications.

- To motivate, enthuse and nurture students and scientists with potential and proven talents to work in emerging fields of Renewable Energy.
- To conceptualize and implement new teaching methods in the area of renewable energy including organizing short-term training programmes for various target groups as a measure of outreach of the institution.

(5) Ministry of Shipping, Road Transport & Highways

- The main objective of the Chair is to promote research and development in the area of development of Highway Systems. An important activity related to the Chair will be dissemination of advanced knowledge and technology transfer.

(6) Ministry of Water Resources

The main objective of the Chair is to carry out studies on water resources with special emphasis on assessment of effect of climate change on it and adaptation strategies in respect of planning, design and management of water resources systems of particularly Indus Basin. An important activity related to the Chair will be transfer of technology to various organizations of MOWR.

The other general objectives are:

- To take part in the academic programme of IIT/Roorkee as full time professor/faculty in the department of Water Resources Development & Management.
- To develop R&D programme relevant to the needs of various organizations of MOWR/GoI in the related areas.
- To initiate and develop HRD programmes relevant to the needs of various organizations of MOWR/GOI and to coordinate courses for their officers.
- To review available design standards and suggest necessary changes/modifications to accommodate the effect of climate change in design of water resources systems.

(7) Jaiprakash Sewa Sansthan

The creation of the position of JAYPEE Chair Professor shall accelerate research and development, teaching in the area of the Hydro Power in the country. The Jaypee Chair Professor shall provide leadership one or many of the following areas:

- To provide inputs through state of the art technology and innovation in hydro power development.
- To address environmental, social impact of hydro power development projects including initiation of studies for promoting clean energy.
- To carry out research and development in the field of hydro power generation.
- To disseminate knowledge in planning, design and operation and maintenance for hydro power development through standards, guidelines, seminars, training user manuals etc.

(8) North Eastern Electric Power Corporation Ltd. (NEEPCO)

The creation of the NEEPCO Professorial Chair shall accelerate research and development, teaching and training in the area of the Power Sector in the country. The Chair Professor is expected to provide leadership in one or many of the following areas of Power Sector:

- To provide input through state of the art technology and innovation in water resources, hydropower development.
- To address environmental, social impact of water resources and power development projects including initiation of studies for promoting clean energy.
- To carryout research and development in the field of water resources and hydropower generation.
- To disseminate knowledge in planning, design and operation and maintenance for power development through standards, guidelines, seminars, training, user manuals etc.

(9) Ministry of Labour & Employment, Government of India

1. As a Special Invitee to the Steering Committee of Mentor Councils, contribute to development of understanding of the Construction Materials and Technology and the Real Estate Sector. The Chair will be expected to submit an annual report indicating latest developments in the sector, demand–supply dynamics, advancement in technology , emerging occupations and impact of these changes on the vocational training scenario. Chair will have to ensure that these findings are duly incorporated in the periodic review of courses, etc. as mentioned above.
2. Provide technical support to the Construction Materials and Technology, and Real Estate Mentor Council in its activities including, review of the curricula of various existing courses being run in the concerned sector and also for new courses wherever proposed; to explore the possibility of using distance learning, e-learning and internship/apprenticeship as part of the course design, etc.
3. Facilitate in development of strategy for introduction of distance learning modules for students and helping in selection of panel for delivering the same to students. Chair will also be expected to deliver at least 04 lectures in his /her area to expertise for ToT in distance mode in a year.
4. As a member of Managing Committee of the Incubation Center in Construction Materials and Technology, and Real Estate, recommend the criteria for selection of incubates and selection process, help in shortlisting as well as selection of incubates, guide incubates during their term in the Incubation Center and review their progress on a periodic basis. Also guide the other members of the Managing Committee, if the term of incubate should be extended.

(10) Shamsheer Prakash Chair Professor

To accelerate research and development, teaching and training in the area of the SOIL DYNAMICS, and GEOTECHNICAL EARTHQUAKE ENGINEERING, in the country. The Shamsheer Prakash Chair Professor shall provide leadership in one or more of the following areas:

- To provide inputs through state of the art technology and innovation in soil dynamics, and geotechnical earthquake engineering.
- To conduct research and development activities in the field of soil dynamics and geotechnical earthquake engineering.
- To disseminate knowledge in planning, design and operation and maintenance for substructures/geotechnical components of infrastructures under seismic loading through standards, guidelines, seminars, training and user manuals.

ACTIVITIES

The SP Foundation Chair Professor shall contribute to any of the following activities in the areas of soil dynamics and earthquake engineering.

- Teach and conduct research and development activities.
- Formulate state of the art reports, guidelines, standards and user manuals
- Organize/participate in seminars on current issues
- Organize training workshops for the national and international groups of engineers and scientist.
- Other activities deemed relevant to soil dynamics and earthquake engineering.