



IIIT-Delhi

Tenure Track Faculty Positions

Electronics and Communication Engineering

Selections in multiple locations in US

April-May , 2012

iiitd.ac.in/careers/faculty/2012

IIIT-Delhi (www.iiitd.ac.in) is an autonomous institute created by Govt of Delhi with a mission to become a world class R&D led Institution in IT and allied areas. It is one of the most vibrant and exciting academic environments in India and an ideal place for a young researcher who wishes to work in India in these exciting times. It has recruited over 20 faculty members in 2 years, mostly PhD from US and Europe, and has built strong research groups in areas like Security, Biometrics, Mobile Computing, and Data Management.

How to Apply?

For applying, send an email with your CV with names of at least three references, a research statement, and a teaching statement indicating the core and advanced courses of interest to: faculty-applications@iiitd.ac.in and cc to jalote@iiitd.ac.in, Director, IIIT Delhi, and roy@ee.washington.edu, External Consulting Chairman for ECE. Please put the subject as "Faculty position in ECE at IIIT-Delhi".

Eligibility

The ideal candidate will have a PhD from a top Institution in India or abroad, good research and publication track record, and show future potential.

We seek candidates grounded in some of the core ECE areas, who are driven by emerging systems applications, have the capability to build a research program, and provide innovation and quality teaching at both the undergraduate and graduate levels.

Areas of Interest

The institute is looking for tenure-track faculty in the following areas of Electronics and Communication Engineering:

- **Circuits/Electronics:** VLSI/CAD & Nano-Electronics; Mixed-Signal / Analog circuits / RF transceivers; Low Power Electronics, 3D ICs, Multi-core processors and new architectures, Systems-on-chip and network-on-chip, I/O.
- **Communications/Networks:** Wireless communication and Networks; Integration of Wired/Wireless Networks; Applications to transportation, energy grids and next generation networking; Information theory and network science; Spectrum policy and management.
- **Signal/Image Processing:** Multimedia Systems ; Image Compression & Processing; Speech recognition, processing, translation to text; Bio-Medical Imaging and Applications to Systems Biology.
- **Energy Systems and Technologies:** Energy sensing, management, operations; power electronics, Smart Grid technologies (communications and control, distributed operations).
- **Embedded & Sensor Systems, Controls:** Emerging low power/low cost sensor net platforms; controls with applications to cyber-physical systems.

Research, Innovation, and Development

The Institute has a strong focus on research, innovation, and development to create impact through published papers, hardware and software prototyping, deployments and ultimately, technology transfer. It has a strong focus on graduate education via the PhD program (various policies to attract PhD students has already yielded over 20 scholars in two years). Significant support for initial career development via initiation research grant, support for conference travel and professional society membership, and encouragement of continuing collaborations with foreign partner institutions (with options for short-term leave support). It has implemented systems of yearly appraisal/feedback and a tenure process to help faculty members aim high and create an institute whose reputation is benchmarked against international standards.

Education

The Institute also aims to provide excellent education. The BTech (IT) Program has many innovative concepts like starting with the CS courses, allowing long duration projects, streams to allow limited specializations in CS/ECE as well as interdisciplinary areas, etc. In the MTech program, it has both thesis and non-thesis options, and possibility of specialization in areas like Security, Data Management, etc. It plans to start all the three programs – BTech, MTech, and PhD – in ECE in the next two years.

Compensation and Quality of Life

The institute provides a compensation of about 1 lac/month for a starting Asst. Prof., and allows a faculty member to supplement it through research grants, summer sabbaticals in R&D labs/companies, consultancy, etc. We expect to move to a modern new campus at Okhla, with a Metro station within ½ km, with modern, good quality and spacious accommodation for faculty. Delhi is widely regarded as one of the best cities in India for living, with excellent air and train connectivity.

Selection/Recruitment in US

Short listed candidates will be invited to meet the selection committee at UCLA, Georgia Tech, or Northwestern University, end of April, 2012. Invited candidates will be reimbursed for their travel to meet the selection committee based on receipts (max: \$500). Prior to selection committee meeting, candidates will be invited to giving e-seminars to the faculty of IIIT-Delhi. Selected candidates, who are keen to join, may be invited to visit the institute (support for which will be provided, max: Rs. 60,000).

Important Dates

For applying: **April 15, 2012**

E-seminars of shortlisted candidates:
Feb through April, 2012

Selections: **Dates to be decided, April -May, 2012**

Decisions to be communicated within two weeks of the selection committee meetings.