

**INDUSTRIAL RESEARCH & CONSULTANCY CENTRE
OFFICE OF THE DEAN (R&D)
INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY.**

No. DRD/Rectt/Project 142/2015

Date: 14/10/2015

Circular No. 142/2015

RECRUITMENT FOR PROJECT

Applications are invited from the citizens of India for filling up the following temporary positions for the sponsored project undertaken in the Department of Electrical Engineering of the Institute. The positions are temporary initially for a period of 1 Year and tenable only for the duration of the project. The requisite qualification & experience etc. are given below:

Project Title & Funding Agency

“National Centre of Excellence in Technologies for Internal Security (NCETIS)” (Department of Electronics & Information Technology)

National Centre of Excellence in Technologies for Internal Security (NCETIS), at Indian Institute of Technology (IIT), Bombay has been setup under Government of India’s flagship Digital India Program. It is targeted towards undertaking research to transform research outcomes into prototypes and developing indigenous technologies in strategic sector of internal security.

Position & Salary	Senior Project Manager (1 Post) Consolidated salary Rs. 67000/- 91000/- p.m.
Qualification	B.Tech with 10-12 Years of experience/M.Tech with 8-10 Years of experience in CSE/ ECE. Knowledge in Wireless and Broadband communication. Experience in one of System/ Software/ Hardware architecture is essential. Strong skills in Signal Processing, experience in either of TI/Freescale/Analog Device DSPs. Ability to lead a team and experience in handling projects. Understanding of 3GPP LTE specifications, in particular physical/network layer of wireless communications and public safety communication standards like TETRA, APCO etc. is preferable. Architectural knowledge of L1/ L2 stacks of LTE based eNodeB/UE is a plus.
Job Profile	Candidate must be able to contribute towards Architecture/Software Development/Project management for the development of state of the art broadband public safety communication system based on LTE with capability for real time video transmission.

Position & Salary	Sr. Project Engineer (4 Posts) Consolidated salary Rs. 50000/- 70000/- p.m.
Qualification	B.Tech with 6 Years of experience/M.Tech with 4 Years of experience in CSE or ECE. Experience in software development and debugging of embedded software on a variety of platforms (DSPs/ARM/PPC). Strong development credentials using C/C++ for Embedded systems with some domain knowledge in Wireless communication and experience with MATLAB, scripting and Linux Device Drivers. Knowledge of toolchains and cross-compilers is a must.

	Sound exposure on using open-source tools/software (for development as well as debugging, testing) and test equipment like DSO/Signal Analyser. Prior experience in working with multicore SoCs or Development/Porting/Testing for LTE would be a plus.
Job Profile	Candidate must be able to contribute in coding/integration/system debug activities for the development of broadband public safety communication system based on LTE.

Position & Salary	Project Engineer (3 Posts) Consolidated salary Rs. 40000/- 50000/- p.m.
Qualification	B.Tech/B.E. with minimum 2-3 years of experience/M.Tech with 1-2 years of experience in ECE/CSE. Software development for Embedded Systems using C/C++ with some domain knowledge in Wireless communication is a must. Experience with Linux socket programming, GNU debugger, MATLAB, scripting, and some exposure to using test equipment like DSO/ Signal Analysers. Prior experience in Development/Porting/Testing for LTE would be a plus.
Job Profile	Candidate must be able to contribute in coding/integration/system debug activities for the development of broadband public safety communication system based on LTE.

Position & Salary	Project Research Assistant (2 Posts) Consolidated salary Rs. 30000/- 42000/- p.m.
Qualification	M.Tech/B.Tech/B.E with exceptional academic record (CGPA 8.0 or above). Software development for Embedded Systems using C/C++ with some domain knowledge in Wireless communication is a must. Experience with Linux socket programming, GNU debugger, MATLAB, scripting, and some exposure to using test equipment like DSO/Signal Analysers.
Job Profile	Candidate must be able to contribute in coding/integration/system debug activities for the development of broadband public safety communication system based on LTE. Candidate will be expected to develop prototypes and test-beds based on the algorithms and protocols used in D2D communications, resource management, power control, scheduling and interference management for the next generation wireless networks.

Project Title & Funding Agency

“5G Research and Building Next Gen Solutions for Indian Market” (Department of Electronics & Information Technology)

IIT Bombay has been actively working in research and development towards next generation wireless networks. Software Defined Networking (SDN), coupled with Network Function Virtualization (NFV) and Device to Device Communication (D2D) are seen as future of all cellular networks.

Position & Salary	Senior Project Manager (1 Post) Consolidated salary Rs. 67000/- 91000/- p.m.
Qualification	B.Tech with 10-12 Years of experience/M.Tech with 8-10 Years of experience in CSE/ ECE. Knowledge in Wireless and Broadband communication. Experience in one of System/ Software/ Hardware architecture is essential. Strong skills in Signal Processing, experience in either of TI/Freescale/Analog Device DSPs. Ability to lead a team and experience in handling projects. Understanding of 3GPP LTE specifications, in particular physical/network layer of wireless communications and public safety communication standards like TETRA, APCO etc. is preferable. Architectural knowledge of L1/ L2 stacks of LTE based eNodeB/UE is a plus.
Job Profile	Candidate must be able to contribute towards Architecture/Software Development/Project management for the development of state of the art broadband public safety communication system based on LTE with capability for real time video transmission.

Position & Salary	Sr. Project Engineer (2 Posts) Consolidated salary Rs. 50000/- 70000/- p.m.
Qualification	B.Tech with 6 Years of experience/M.Tech with 4 Years of experience in CSE or ECE. Experience in software development and debugging of embedded software on a variety of platforms (DSPs/ARM/PPC). Strong development credentials using C/C++ for Embedded systems with some domain knowledge in Wireless communication and experience with MATLAB, scripting and Linux Device Drivers. Knowledge of toolchains and cross-compilers is a must. Sound exposure on using open-source tools/software (for development as well as debugging, testing) and test equipment like DSO/Signal Analyser. Prior experience in working with multicore SoCs or Development/Porting/Testing for LTE would be a plus.
Job Profile	Candidate will be expected to participate and contribute towards standardization efforts carried out by the Indian TSDO, TSDSI and 3GPP. Candidate will also help develop prototypes/test-beds for the next generation of wireless networks.

Position & Salary	Project Engineer (2 Posts) Consolidated salary Rs. 40000/- 50000/- p.m.
Qualification	B.Tech/B.E. with minimum 2-3 years of experience/M.Tech with 1-2 years of experience in ECE/CSE. Software development for Embedded Systems using C/C++ with some domain knowledge in Wireless communication is a must. Experience with Linux socket programming, GNU debugger, MATLAB, scripting, and some exposure to using test equipment like DSO/ Signal Analysers. Prior experience in Development/Porting/Testing for LTE would be a plus.
Job Profile	Candidate must be able to contribute in coding/integration/system debug activities for the development of broadband public safety communication system based on LTE.

Position & Salary	Project Research Assistant (2 Posts) Consolidated salary Rs. 30000/- 42000/- p.m.
Qualification	M.Tech/B.Tech/B.E with exceptional academic record (CGPA 8.0 or above). Software development for Embedded Systems using C/C++ with some domain knowledge in Wireless communication is a must. Experience with Linux socket programming, GNU debugger, MATLAB, scripting, and some exposure to using test equipment like DSO/Signal Analysers.
Job Profile	Candidate must be able to contribute in coding/integration/system debug activities for the development of broadband public safety communication system based on LTE. Candidate will be expected to develop prototypes and test-beds based on the algorithms and protocols used in D2D communications, resource management, power control, scheduling and interference management for the next generation wireless networks.

The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidate possessing the requisite qualification and experience should apply online at <http://www.ircc.iitb.ac.in/IRCC-Webpage/rnd/HRMSLoginPage.jsp> , if there is any problem applying online , candidates may apply on plain paper stating the CIRCULAR No., project title, position applied for , name, permanent and mailing addresses, date of birth, details of academic qualification and experience or download the Application form available on <http://www.ircc.iitb.ac.in/IRCC-Webpage/rnd/ProjectStaffInfo.jsp> with the copies of certificates / testimonials and must super scribe the envelope with CIRCULAR No. _____ & POST: _____ to the Asstt. Registrar (R & D), Indian Institute of Technology, Bombay, Powai, Mumbai-400076 so as to reach on or before **4th November, 2015**. Candidates called for interview will be required to attend at their own expenses.

Asstt. Registrar (R&D)

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