

INDIAN INSTITUTE OF TECHNOLOGY DELHI
Industrial Research & Development Unit
Hauz Khas, New Delhi -110016

No. : IITD/IRD/RP02435/

5302

Advertisement No. : IITD/IRD/ 54/2013

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Dt. : /06/2013

Applications are invited from Indian citizens for purely temporary contractual appointment under the project.


Title of the Project		"Development of Smart Cane - An Affordable knee-above obstacle detection and warning system for the visually impaired" (RP02435)	
Post	Consolidated Pay Slab	Qualifications	Remarks
Sr. Project Engineer/ Scientist with computer science or related specialization (No. of Posts : 1)	Rs.40,000-44000-48000-52000-56000-60000-64000/- Per month + HRA @ 20% (as per rules)	Essential: Ph.D. in computer science and engineering or related engineering field. Significant research and development experience. Experience in leading research team and collaborative projects with industry and academia. Desirable: Prior experience in development of assistive devices and working with persons with disabilities.	Responsible for project strategy, implementation and coordination of projects in the area of embedded system and software assistive devices and technologies.
Project Engineer/Scientist or Project Associate Software specialization (No. of Posts : 1)	Rs. 32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules) Or Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)	Essential: 1 st class B. Tech./ M. Tech. in computer science or MCA in computer applications. Software development with C/C++ Strong knowledge of software development fundamentals, object-oriented design and algorithms Software design, testing, documentation and source control. Desirable: Basic knowledge / experience of micro-controller based design.	Project will involve software development, testing and field deployment of RF-based embedded system.
Project Engineer /Scientist or Project Associate (No. of Posts : 1) Software specialization Python / C++ Developer	Rs. 32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules) Or	Essential: 1 st class B. Tech./ M. Tech. in computer science or MCA in computer applications. 2 + years development experience in C++ and or Python applications. Strong background in data structures and algorithms	Person will contribute to the development of an open source screen reading software. Required to devise innovative solutions to

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	Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)	Strong knowledge of software development fundamentals and object-oriented design. Desirable: Knowledge of WIN32 APIs and COM Experience with Microsoft Application automation and UIA HTML5, Accessibility of software and website and internationalization of software.	complex problems inherent with software and website accessibility using Microsoft Automation tools.
Project Engineer/Scientist or Project Associate (No. of Posts : 1) Embedded software Design Specialization	Rs. 32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules) Or Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)	Essential: 1 st class B. Tech./ M. Tech. in Electronics or computer Science or related field. Embedded software development experience. Software interfacing with sensors (IR/Ultrasonic) Interfacing with communication modules like RF/Bluetooth Ethernet and related protocols. Experience with development tools like Keil/AVR Studio etc. Desirable: basic knowledge of micro-controller based design, PCB design and layout.	Project will involve software design, rigorous testing, and field deployment of embedded system applications. Visits to field sites and on-site debugging is expected.
Project Engineer/Scientist or Project Associate (No. of Posts : 1) Embedded software Design Specialization	Rs. 32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules) Or Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)	Essential: 1 st class B. Tech./ M. Tech. in Electronics or computer Science or related field. Micro-controller or micro-processor based design PCB Design and layout Hardware interfacing with sensors. Desirable: ATMEL/ARM/DSP based design experience. PCB Design tools: OrCAD/Protel/Altium etc.	Project will involve, design, testing, and field deployment of embedded system applications. Visits to field sites and on-site debugging is expected.
Project Engineer/Scientist or Project Associate or Sr. Project Assistant (No. of Posts : 1)	Rs.32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules)	Essential: 1 st class B. Tech./ M. Tech. in Electronics or computer Science or related field. Analog and digital circuit design and PCB design for embedded applications.	Project will involve design, rigorous testing and field deployment of embedded system applications.

Electronic Specialization	<p>Or</p> <p>Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)</p> <p>Or</p> <p>Rs.25,000-27500-30000-32500-35000-37500-40000/- per month + HRA @ 20% (as per rules)</p>	<p>Experience with working/interfacing various sensors.</p> <p>Desirable: experience with analog design related to audio amplifiers, power amplifiers, ultrasonic sensors and impedance matching, interference removal circuits.</p> <p>Basic knowledge of micro-controller based design, PCB design and layout.</p>	<p>Visits to field sites and on-site debugging is expected.</p>
<p>Project Engineer/Scientist or Project Associate (No. of Posts : 1)</p> <p>Mechanical Specialization</p>	<p>Rs.32000-35200-38400-41600-44800-48000-51200/- per month + HRA @ 20% (as per rules)</p> <p>Or</p> <p>Rs.27,500—30250-33000-35750-38500-41250-44000/- per month + HRA @ 20% (as per rules)</p>	<p>Essential; 1st class B. Tech in Mechanical Engineering / Industrial Production / Material Science + 2 years' experience.</p> <p>Desirable: Experience in smart materials and actuation technologies. Basic knowledge of electronics and circuits.</p>	<p>The project will involve development of novel actuation technology for electronics braille cells.</p>
<p>Project Assistant or Jr. Project Assistant (No. of Posts : 1)</p> <p>Field Engineer</p>	<p>Rs.23500-25850-28000-30550-32900-35250-37600/- per month + HRA @ 20% (as per rules)</p> <p>Or</p> <p>Rs14000-15400-16800-18200-19600-21000-22400/- per month + HRA @ 20% (as per rules)</p>	<p>Essential: Diploma /B.E./ B. Tech.</p> <p>Basic computer and IT Skills like: MS Word, Power point, Excel, computer networks.</p> <p>Field testing of devices and data/feedback collection from users.</p> <p>Transcription, data entry, data handling and basic analysis.</p> <p>Documentation, record keeping, error reporting and production of manuals/reports.</p> <p>Desirable: Web programming experience (HTML/Javascript) CAD modeling and design. PCB Fabrication</p>	<p>Travel to field sites in Delhi and other place in India is expected.</p>

The candidates who are interested to apply for the above post should send their applications with complete information regarding educational qualifications indicating percentage of marks/division, details of work experience and a recent passport size photograph along with an application fee of Rs.100/- for the posts of Sr. Project Scientist, Project Scientist, Project Associates and Rs. 50/- for the posts of Sr. Project Assistant, Project Assistant and Junior Project Assistant (non-refundable) in the form of a Bank Draft drawn preferably on State Bank of India in favor of Dean(IRD), IIT Delhi addressed to the Assistant Registrar, IRD, Indian Institute of Technology (IIT) Delhi, Hauz Khas, New Delhi – 110016 under the title "Recruitment for Assistive Technology Projects at IIT Delhi". IIT Delhi reserves the right to fix suitable criteria for short-listing of eligible candidates satisfying advertised qualification and requirement of the project post. Only short-listed candidates will accordingly be informed. Candidates with exceptional academic qualifications can be given waiver of experience requirement. The last date for receipt of duly completed applications will be 15 days from the date of issue of this Advertisement. **The Advertisement No. & post applied for must be mentioned on the left side of the application.** 5% relaxation of marks may be granted to the SC/ST Candidates. In case of selection of a retired/superannuated government employee, his/her salary will be fixed as per prevailing IRD norms.


(V.K. Vashistha)
Assistant Registrar (IRD)

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