

इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी दिल्ली
हौज खास, नई दिल्ली -110016
(औद्योगिक अनुसंधान एवं विकास इकाई)
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Hauz Khas, New Delhi-110016
(Industrial Research & Development Unit)

No. IITD/IRD/RP04163G/ 76236

Advertisement No.: IITD/IRD/203/2022

Dated:14/09/2022

Applications from Indian nationals are invited for Project Appointment under the following project. Appointment shall be on contractual basis with consolidated pay, renewable yearly or upto the duration of the project, whichever is earlier. निम्नलिखित परियोजना के तहत भारतीय नागरिकों से आवेदन आमंत्रित किए जाते हैं। अपॉइंटमेंट, अनुबंधित आधार पर समेकित वेतन, नवीकरणीय वार्षिक या परियोजना की अवधि तक, जो भी पहले हो, के साथ होगा। This is a mission-mode project that involves development of a robotic manipulation system capable of physical interaction with objects as directed by a human partner. The project involves software development, use of Artificial Intelligence techniques and experimentation on a standard ROS enabled robot manipulator and base.

Title of the Project	Development of a Cognitive Model for an Intelligent Robotic Teammate (RP04163G)	
Funding Agency	DRDO, Ministry of Defence, New Delhi	
Name of the Project Investigator	Prof. Rohan Paul [email ID: drdorp04163@gmail.com]	
Dept/ Centre	Department of Computer Science & Engineering	
Duration of the Project	Upto:06/09/2024	
Post (s)	Consolidated fellowship / Pay-slab	Qualifications
Principal Project Scientist (1) (Software Specialization)	Rs. 56,000-60,000-64,000-69,000-74,000-79,000/- p.m. plus HRA @ 24%	Essential: • Ph.D. with 1 st class in the appropriate discipline (computer science or electronics or mechanical) or equivalent, OR M. Tech with 1 st class in the appropriate discipline (computer science or electronics or mechanical) or equivalent with at least 6 years' experience. Desirables: • Strong background with C++ or Python software development, algorithms and Objectoriented design. • Proficiency in build system (CMake or Makefiles), Ubuntu/Linux OS (including Networking and device drivers). • Experience with Robot Operating System (ROS), Gazebo/PyBullet simulation and motion planning with ROS Moveit • Exposure to planning/control/localization with sensors for a robotic manipulator or a ground robot. • Experience with Deep learning frameworks like PyTorch/Tensor flow is an advantage
Project Scientist (1)	Rs. 35,400-37,900-40,400-43,600-46,800-50,000/- p.m. plus HRA @ 24%	Essential: • 1 st class M. Tech or B.Tech in computer science/electronics/mechanical or equivalent discipline with GATE* qualification. Desirable: • Strong C++ or Python software development, object-oriented design and algorithms. • Proficiency in build system (CMake or Makefiles), Ubuntu/Linux OS and Networking and device drivers. • Experience with Robot Operating System (ROS), Gazebo/PyBullet simulation and motion planning with ROS Moveit • Exposure to planning/control/sensor fusion for a robotic manipulator or a ground robot • Basic exposure to AI/ML tools (e.g., natural language processing) and experience with Deep learning frameworks like PyTorch/Tensor flow is an advantage *The requirement of GATE qualification may be relaxed by the committee in case of highly meritorious candidates.
Project Scientist (1)	Rs. 35,400-37,900-40,400-43,600-46,800-50,000/- p.m. plus HRA @ 24%	Essential: • 1 st class M. Tech or B.Tech in computer science/electronics/mechanical or equivalent discipline with GATE* Desirable: • Strong proficiency in coding in C++ or Python and working with Ubuntu/Linux operating system. • Experience in working with cameras, calibration, and image processing • Experience with Robot Operating System (ROS) and Gazebo/PyBullet simulation, ROS Image tools/ Point Cloud Library • Experience with Deep Learning models and frameworks (e.g., PyTorch). *The requirement of GATE qualification may be relaxed by the committee in case of highly meritorious candidates.
Project Assistant (Tech) (1)	Rs. 29,200-31,200-33,200-35,800-38,400-41,000/- p.m. plus HRA @ 24%	Essential: • Diploma (3 years duration)/Graduate Degree in appropriate discipline (electronics/mechanical/computer science) with at least 2 years' relevant work experience Desirables: • Experience in assembling, cabling, and maintenance of electrical equipment/computer hardware systems • Experience in basic CAD design, Circuit assembly perform rapid prototyping/CNC operations jobs and fitment

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The candidates who are interested to apply for the above post should download Form No. IRD/REC-4 from the IRD Website (<http://ird.iitd.ac.in/rec>) of IIT Delhi and submit the duly filled form with complete information regarding educational qualifications indicating percentage of marks/division, details of work experience etc. by e-mail with advertisement No. on the subject line at email id: drdorp04163@gmail.com

IIT Delhi reserves the right to fix higher criteria for short-listing of eligible candidates from those satisfying advertised qualification and requirement of the project post and their name will be displayed on web link (<http://ird.iitd.ac.in/shortlisted>) alongwith the interview details. Only short-listed candidates will be informed for online interview. A test may be conducted for certain positions. In case any clarification is required on eligibility regarding the above post, the candidate may contact Prof. Rohan Paul at email id: drdorp04163@gmail.com

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 अनुसूचित जाति / अनुसूचित जनजाति के उम्मीदवारों को अंकों की 5% छूट दी जा सकती है। एक सेवानिवृत्त सरकारी कर्मचारी के चयन के मामले में उसका वेतन वर्तमान आईआरडी मानदंडों के अनुसार तय किया जाएगा। The last date for submitting the completed applications by e-mail is 28/09/2022 by 5.00 p.m.

सहायक कुलसचिव, आईआरडी

RP/15-05.2022

वितरण

- Head of the Deptt./Centres/Units : It is requested that the contents of the Above Advt. be brought to the notice of the staff working in your Deptt./Centre/Unit
- Webmaster, IRD : To put advertisement at IITD website.
- Notice Boards
- Advertisement file
- Prof. Rohan Paul, PI, Department of Computer Science & Engineering
- Copy to Chairperson, DRC/CRC