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. The project 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.

<table>
<thead>
<tr>
<th>Title of the Project</th>
<th>Development of a Cognitive Model for an Intelligent Robotic Teammate (RP04163G)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funding Agency</td>
<td>DRDO, Ministry of Defence, New Delhi</td>
</tr>
<tr>
<td>Name of the Project</td>
<td>Prof. Rohan Paul [email ID: <a href="mailto:drdorp04163@gmail.com">drdorp04163@gmail.com</a>]</td>
</tr>
<tr>
<td>Deptt./Centre</td>
<td>Department of Computer Science &amp; Engineering</td>
</tr>
<tr>
<td>Duration of the Project</td>
<td>Upto 06/09/2024</td>
</tr>
</tbody>
</table>

**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 1st class in the appropriate discipline (computer science or electronics or mechanical) or equivalent OR M Tech with 1st 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 Object-oriented 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/TensorFlow is an advantage.

**Project Scientist (1)**

- **Rs 35,000-40,000-43,000-46,600-50,000/- p.m. plus HRA @ 24%**
- Essential: 1st 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/Tensorflow is an advantage.

**Project Scientist (1)**

- **Rs 35,000-40,000-43,000-46,600-50,000/- p.m. plus HRA @ 24%**
- Essential: 1st class M Tech or B Tech in computer science/electronics/mechanical or equivalent discipline with GATE qualification 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).

**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 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 requirement of GATE qualification may be relaxed by the committee in case of highly meritorious candidates.*
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 अको की 5% छूट दी जा सकती है एक सेवानिवृत्त सरकारी कर्मचारी के चयन के मार्ग द्वारा. उसका वेतन द्वारा आईडीएसएफ 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.

It is requested that the contents of the Above Advt be brought to the notice of the staff working in your Deptt./Centre/Unit To put advertisement at IITD website.