

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
**Electronics and Communications Engineering Department**

Dated: ...3-March-2020

**ADVERTISEMENT TO FILL UP PROJECT POSITIONS\***

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator (Name: Dr Sparsh Mittal.....), Dept./Centre Electronics and Communications Engineering..... Indian Institute of Technology, Roorkee.

1. Title of project: Designing Efficient Hardware Accelerators for Autonomous Driving Vehicles
2. Sponsor of the project: Semiconductor Research Corporation (USA)
3. Project position(s) and number: Two JRF positions
4. Qualifications: MTech in ECE/CSE (or equivalent) with a valid GATE score
5. Emoluments: 31,000 Rs pm (plus HRA as per rules)
6. Duration: 1-May-2020 to 31-Aug-~~2020~~ 2021
7. Job description: In this research, we will design hardware accelerators for autonomous driving vehicles (ADVs). We will design accelerators on CPU, FPGA, GPU and ASIC and compare them to gain insights. We will also propose approximate-computing strategies to explore tradeoff between performance target and resource budget. This project will involve deep-learning/computer-vision techniques, so candidates with that knowledge are preferred.

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
  - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
  - Experience including research, industrial field and others.
  - Attested copies of degree/certificate and experience certificate.
3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

**Note: The selected candidate may get an opportunity for PhD admission.**

The last date for application to be submitted to office of Principal Investigator is **31-March-2020**..by 5 PM.  
 (not applicable for walk in interview)

Sparsh Mittal  
 Name and signature  
 of Principal Investigator

**Email: sparshfec@iitr.ac.in**

\*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

Approved

19/06/03/2020

कुलपति (सि.रि.)/Dean (SRIC)

1.3.20