

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/RP03859G/239176

Dated: 15/06/2020

**Advertisement No.: IITD/IRD/091/2020**

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।

|                                  |   |  |
|----------------------------------|---|--|
| Title of the Project             | Structural health monitoring based on Bayesian approach using vibration data (RP03859G) |  |
| Funding Agency                   | Science and Engineering Research Board (SERB), DST                                      |  |
| Name of the Project Investigator | Prof. Sahil Bansal  |  |
| Deptt./Centre                    | Department of Civil Engineering   |  |
| Duration of the Project          | Upto:31/12/2021   |  |
| Post (s)                         | Consolidated fellowship / Pay-slab  | Qualifications   |
| Jr. Research Fellow (1)          | Rs.31,000/- p.m. (consolidated)   | 1st class M.Sc./B. Tech. in relevant discipline with NET/GATE* qualification. OR M.Tech (with GATE* qualification) in relevant discipline. First class is required in the qualifying degree. The candidate is required to have fundamental knowledge of structural dynamics, numerical techniques & optimization methods. Programming skill in Python/Matlab is desirable.<br>In this study, a Bayesian model updating technique will be applied for uncertainty quantification in the vibration-based damage assessment of a structural system. This structure system will be built and tested at laboratory scale. At different damage degrees of induced damage, modal characteristics such as natural frequencies and mode shapes will be determined through vibration testing, and these data will be then used in the Bayesian model updating schemes<br>*The requirement of NET/GATE examination for the selection to the post of JRF may be relaxed for the candidates who have graduated from Centrally Funded Technical Institutes (CFTIs) with a CGPA of more than 8.000 (80% aggregate marks). |

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 to Prof. Sahil Bansal** at email id: [sahil@iitd.ac.in](mailto:sahil@iitd.ac.in) 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. In case any clarification is required on eligibility regarding the above post, the candidate may contact **Prof. Sahil Bansal at email id: [sahil@iitd.ac.in](mailto:sahil@iitd.ac.in)**

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 30/06/2020 by 5.00 p.m.** The shortlisted candidates who are called for online interview should bring original certificates (both professional and academic) with a recent passport size photograph at the time of online interview.

सहायक कुलसचिव, आईआरडी

**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. Sahil Bansal, PI, Department of Civil Engineering
- Copy to Chairperson, DRC/CRC
- Dr. Harshita Bhatnagar, RD Coordinator, (R&D) Wing