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/RP04317G/ 106791 Dated: 23/12/2022 26

Advertisement No.: IITD/IRD/258/2022

Applications from Indian nationals are invited for Project Appointment under the following project. Appointment shall be on contractual basis with consolidated pay subject to periodic performance review, and 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. The position can be considered for extension based on the candidate's performance and availability of funds.

Project Description: Buildings consume a significant part of total energy in our economy (~30- 40%), and a significant fraction of it is used for thermal end-uses. This project will enhance the energy efficiency of commercial by developing and demonstrating thermal energy storage (TES) technologies for heating, ventilation, and air-conditioning (HVAC) and refrigeration applications. TES will benefit the commercial buildings by improving the integration of renewable energy sources through peak load shaving and enhancing the resiliency of the buildings in the events of blackouts and brownouts. We will develop detailed models of different TES system configurations in this project. We will also demonstrate these technologies through lab-scale experiments and pilot installations. We will develop intelligent controls to optimize the deployment of energy storage assets.

Title of the Project	Thermal energy storage technologies for commercial buildings for enhanced energy efficiency and resiliency (Under Corporate Social Responsibility) (RP04317G)	
Funding Agency	ITC Limited	
Name of the Project Investigator	Prof. Anurag Goyal [email ID: agoyal@mech.iitd.ac.in]	
Deptt/.Centre	Department of Mehanical Engineering	
Duration of the Project	Upto:25/03/2024	
Post (s)	Consolidated fellowship / Pay-slab	Qualifications
Sr. Project Scientist (1)	Rs.45,000-48,200-51,400-55,400-59,400-63,400/- p.m. plus HRA @ 24%	**Essential Qualifications:** 1st class B.Tech./ M.Tech. + 5 years of experience in mechanical/energy engineering or related discipline. The candidate should have demonstrated the ability to work independently on both simulations and hardware-related engineering problems, project execution, and management. Preference will be given to candidates with prior experience in thermal systems engineering and HVAC and refrigeration. The candidate should demonstrate an understanding of the design, simulation, fabrication, selection and specification, installation, and operation of laboratory equipment typically used in thermal engineering labs (chillers, heaters, fluid flow loops (air and water), instrumentation for temperature, pressure, and flow rate, and system controls). The candidate should be skilled in using computer programs for simulations (MATLAB/Python/Engineering Equation Solver (EES)) and software such as LabVIEW and Microsoft Office, along with experimental analysis and computational tools and software. The candidate should also have good written and verbal communication skills. **Desired Qualifications**: Candidates who have completed PhD or submitted their PhD thesis in mechanical/energy engineering or related discipline. The duration of their PhD training will be counted towards experience. The candidate should have demonstrated the ability to work independently on both simulations and hardware-related engineering problems, project execution, and management. Preference will be given to candidates with prior experience in thermal systems engineering and HVAC and refrigeration. The candidate should demonstrate an understanding of the design, simulation, fabrication, selection and specification, installation, and operation of laboratory equipment typically used in thermal engineering labs (chillers, heaters, fluid flow loops (air and water), instrumentation for temperature, pressure, and flow rate, and system controls). The candidate should be skilled in using computer programs for simulations (MATLAB/Python/Engineering Equation Solver (EES)) and software such as LabVIEW and Microsoft Office, along with experimental analysis and computational tools and software. The candidate should also have good written and verbal communication skills evidenced by their record of publications in reputed international journals.

p.t.o.

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. Anurag Goyal at email id:agoyal@mech.iitd.ac.in** No candidate, who is already employed at IIT Delhi/IRD shall be interviewed unless his/her application has been duly forwarded by their concerned establishment/sections.

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 **online interview** details. **Only short-listed candidates will be informed for online interview.** In case any clarification is required on eligibility regarding the above post, the candidate may contact Prof. Anurag Goyal **at email id: agoyal@mech.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 08/01/2023 by 5.00 p.m.**

28.12.2022

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. Anurag Goyal, PI, Department of Mechanical Engineering
- Copy to Chairperson, DRC/CRC