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/RP05004F/ 4 68025 Dated: 30/05/2025

Advertisement No.: IITD/IRD/135/2025

Applications from Indian nationals are invited for Project Appointment under the following project for the position of postdoctoral research fellow as part of the Net-Zero India (NZI) project. The Net-Zero India (NZI) project is being led by the School of Public Policy, IIT Delhi (IITD) in collaboration with Prayas Energy Group, Pune, and Princeton University's Andlinger Center for Energy & the Environment. The NZI project seeks to develop potential transition pathways for the Indian economy to reach net-zero greenhouse gas emissions by 2070. It will adapt the approach and methods used by Princeton for its influential Net-Zero America study, and Net-Zero Australia study. 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	**Net Zero India Modelling Project (RP05004F)**	
Funding Agency	Giving Green, United States	
Name of the Project Investigator	Prof. Kaveri K Iychettira [email ID:kaveri@iitd.ac.in]	
Deptt/.Centre	School of Public Policy	
Duration of the Project	Upto:19/03/2027	
Post (s)	Consolidated Pay-slab / Fellowship	Qualifications
Principal Project Scientist (01)	Rs.75,600-77,870-80,210-82,620-85,100-87,650-90,280-92,990-95,780-98,650-1,01,610/-p.m. plus HRA @ 27%	**Eligibility criteria:** Ph.D. (or equivalent) in engineering, interdisciplinary energy studies, or a related field. Preference will be given to candidates with demonstrated expertise in energy systems analysis, and the integration of national data (collection, cleaning, reformatting) for economy-wide energy system decarbonization models, and in the production of spatially granular and engineering driven representations of model results. **Preference** will also be given to candidates who demonstrate strong scientific writing, presentation skills, and interest in and track record of publishing in top academic journals. Knowledge of clean energy and industrial decarbonization technologies, and experience with energy system optimization models, is essential. **Desirable qualities**: Experience working across disciplines in multiinstitution and multi-stakeholder project teams is beneficial, and professional (industry) or research experience in the energy sector is desirable. Experience working across disciplines in multiinstitution and multi-stakeholder project teams is beneficial, and professional or research experience in the energy sector is desirable. **Duties and Responsibilities** The successful candidate will work on economy-wide energy system modelling using an in-house open-source model developed as part of the NZI project. This work aims to comprehensively assess India's energy and industrial systems and develop robust strategies for achieving net-zero emissions targets. The candidate will help with the ongoing data acquisition and processing as required by the modelling project, and running the model to reflect different scenarios. The appointment is for 12 months and may be extended depending on performance and funding. The successful candidate may be expected to spend a few months in IIT Delhi and/or Prayas Energy Group Pune working with the collaborators and researchers after initial onboarding of 3 months to gain experience with key modelling frameworks. The successful candidate will be expected to demonstrate: •

		Knowledge of clean energy and industrial decarbonization technologies, and experience with macro-scale energy system optimization models. • Domain knowledge in energy studies, power systems, renewable energy grid integration, and optimization models. • Extensive experience with managing, processing, and analyzing large datasets and strong programming skills especially in Python or Julia-Jump (or similar open-source platforms). • Strong scientific writing, presentation skills, and interest in and track record of publishing in top academic journals.
Sr. Project Scientist (2)	Rs.60,750—62,570-64,450-66,380-68,370-70,420-72530-74,710-76,950-79,260/-p.m. plus HRA @ 27%	**Eligibility criteria:** MTech/ME (or equivalent technical degree) with 1st class in Energy Systems/Power System/ Electrical Engineering, Geospatial engineering, Remote Sensing and GIS, or related areas from a reputed university; strong programming skills especially in Python or JuliaJump (or similar open-source platforms). Preference will be given to candidates with demonstrated expertise in energy systems analysis, sourcing and integration of national data (collection, cleaning, reformatting) for economy-wide energy system decarbonisation models, and in the production of spatially granular and engineering-driven representations of model results. **Preference** will be given to candidates with strong scientific writing, presentation skills. Experience working across disciplines in multi-institution and multi-stakeholder project teams is beneficial, and 1 - 3 years of professional (industry) or research experience in the energy sector is desirable. **Duties and Responsibilities**: Applications are invited for the position of research assistant as part of the Net-Zero India (NZI) project. The Net-Zero India (NZI) project is being led by the School of Public Policy, IIT Delhi (IITD) in collaboration with Prayas Energy Group, Pune, and Princeton University's Andlinger Center for Energy & the Environment. The NZI project seeks to develop potential transition pathways for the Indian economy to reach net-zero greenhouse gas emissions by 2070. It will adapt the approach and methods used by Princeton for its influential Net-Zero America study, and Net-Zero Australia study. **The successful candidate** will work on a variety of data collection, data processing and energy systems analysis tasks. The successful candidate is expected to demonstrate experience in some or all of the following: • Reviewing literature around national-scale and especially Indian energy transition studies • Sourcing publicly available datasets and reports, and as necessary, liaising with industries, government and non-government agencies to collect and prepare data for input into energy systems modelling tools. • Working with spatially resolved data sets related to energy and industrial decarbonization. • Running macroscale energy system models, conducting macroscale energy system analyses or producing spatially granular and engineering-driven representations of energy system model results. • Strong programming skills especially in Python or Julia-Jump (or similar open-source platforms). • Strong scientific writing, presentation skills, and interest in publishing in top academic journals. **Strong interpersonal skills** to work effectively as part of a highly collaborative research team. The appointment is for 12 months and may be extended depending on performance and funding. The successful candidate is expected to spend 6-9 months in IIT Delhi and/or Prayas Energy Group Pune working with the collaborators and researchers after initial onboarding of 3 months to gain experience with key modelling frameworks.

The candidates who are interested to apply for the above post should submit the following with advertisement No. on email to Prof. Kaveri Iychettira, School of Public Policy at email id: kaveri@iitd.ac.in with cc: ashwinim.cstaff@iitd.ac.in. 1. Download Form 'IRD/REC-4' from the IRD Website (http://ird.iitd.ac.in/rec) and submit the duly filled form- with complete information regarding educational qualifications indicating percentage of marks/division, details of work experience and any other relevant details by email. IIT Delhi reserves the right to fix higher criteria for shortlisting of eligible candidates from those satisfying advertised qualification and requirement. 2. CV 3. Cover letter detailing their relevant experience and explaining why they are a suitable candidate 4. One writing sample 5. Contact information for two referees.

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 Kaveri K Iychettira at email ID:kaveri@iitd.ac.in with cc: ashwinim.cstaff@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 सेवानिवृत 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 15/06/2025 by 5.00 p.m

30/05/2025

उप 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. Kaveri K Iychettira, PI, School of Public Policy
- Copy to Chairperson, DRC/CRC