

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/RP04190F/ **56374**

Advertisement No.: IITD/IRD/140/2022

Dated: 11/07/2022

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।

About the project: The collection of crowdsourced street safety perceptions data has become increasingly popular in India given the increasing reports of street harassment and crimes against women. Such data are used as an input for urban policy, modeling female mobility and developing products for safer travel. Similar crowdsourced data are used in the global context to train machine learning (ML) models to generate safety perception maps at scale. This proposal aims to highlight issues of bias in the production of such data and of equity in access to associated Information and Communications Technology (ICT) and ML platforms. We focus on women from lower income strata residing in urban bastis (neighborhoods with underdeveloped infrastructure) in India and hope to contribute towards a deeper understanding of female mobility by dissecting notions of "safety" and eliciting other visual, social and cultural cues learnt directly from the marginalized group. Through this work, we also aim to move the needle of advancing ML fairness towards broader inclusion in the global south and expand on capturing the rich socio-cultural context of local communities.

Specific objectives: • Measuring potential bias in crowdsourced street safety perceptions • Uncovering other social and cultural barriers to mobility and access to crowdsourcing platforms. • Proposing fair and equitable ways to represent the marginalized group into the broader ML research and policy discourse around urban mobility and pedestrian safety using ICT interventions.

About the position: The position is ideal for candidates interested in pursuing a research career in fields including Tech policy, Science Technology and Society, Economics, Computational Social Science, Human Computer Interaction and related fields.

Primary Responsibilities: Literature review; Survey Design; Fieldwork; Interviews and Focus Group Discussions, Data Collection and Analysis

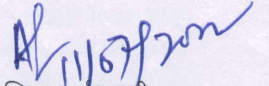
Title of the Project	The Road Less Travelled: Contextualizing and Measuring Bias in Crowdsourced Street Safety Ratings in India (RP04190G)	
Funding Agency	Google Asia Pacific Pvt. Limited	
Name of the Project Investigator	Prof. (Ms.) Nandana Sengupta [Email ID:nandana@iitd.ac.in]	
Deptt./Centre	School of Public Policy	
Duration of the Project	Upto:28/03/2024	
Post (s)	Consolidated fellowship / Pay-slab	Qualifications
Project Scientist (1)	Rs.35,400-37,900-40,400-43,600-46,800-50,000/- p.m. plus HRA @ 24%	Minimum educational qualifications: Masters in Planning, Policy and related fields (with qualifying NET/GATE/SET exam). Note that the requirement of qualifying NET/GATE/SET exam for the post can be relaxed by the selection committee in case of highly meritorious candidates. Expected skills: • Experience with primary data collection (fieldwork, online surveys, crowdsourcing etc) • Experience with coding in statistical languages like R, Python • Experience with using Arc-GIS software Preferred skills: • Familiarity with transportation policy • Familiarity with gender studies literature • Demonstrated interest in topics at the intersection of technology and society Note: This is a full time position so students enrolled in other institutes in a full-time capacity are not eligible.

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Application Process: Interested candidates should send the following documents to "nandana@iitd.ac.in" within the next 15 days with subject line "Project Scientist application - Gender, Mobility and Crowdsourcing" • Curriculum Vitae • Cover Letter (detailing expected skills) • Writing Sample, • IRD Form: https://ird.iitd.ac.in/sites/default/files/prn_files/ird_rec_4.pdf Eligible candidates will be interviewed online (following a potential shortlisting process). The date and time for the interviews will be shared with candidates separately

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. (Ms.) Nandana Sengupta at email id: nandana@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 25/07/2022 by 5.00 p.m.


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. (Ms.) Nandana Sengupta, PI, School of Public Policy
- Prof. Ram Chandra, CRDT
- Copy to Chairperson, DRC/CRC
- Dr. Harshita Bhatnagar, RD Coordinator, (R&D) Wing