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संस्थान
काशी हिन्दू विश्वविद्यालय



INDIAN
INSTITUTE OF
TECHNOLOGY
BANARAS HINDU UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

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Advertisement for the positions of Junior Research Fellow (JRF) and Field Assistant in an ANRF-Funded Research Project

Applications are invited from Indian nationals for the temporary positions of **JUNIOR RESEARCH FELLOW (JRF)** and **FIELD ASSISTANT** to work on the Anusandhan National Research Foundation (ANRF) sponsored research project, under the Advanced Research Grant (ARG) programme, titled “*System-Aware Nudging for Sustainable Transport: Dynamic Human Behaviour in Networked Mobility Systems*” (File No. ANRF/ARG/2025/011784/ENS), reporting to Dr. Agnivesh P, Department of Civil Engineering, IIT (BHU) Varanasi.

The project develops a mathematically rigorous, interdisciplinary framework - integrating control theory, network science, behavioural science and machine learning - to model and optimise commuter behaviour under behavioural nudging, with empirical validation across Indian cities. We are looking for motivated candidates from a **broad range of backgrounds**; the position details are given below.

Position 1 - Junior Research Fellow (JRF)

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|--------------------------------|--|
| Name of the Position | Junior Research Fellow (JRF) |
| Number of Openings | One (01) |
| Duration | Co-terminus with the project (up to 36 months). Initial appointment for 11 months, extendable based on satisfactory performance and availability of funds. The JRF may be upgraded to Senior Research Fellow (SRF) in due course as per ANRF norms. |
| Salary / Emoluments | Rs. 37,000/- per month + HRA (Years 1–2, as JRF); Rs. 42,000/- per month + HRA (Year 3, on upgradation to SRF), as per ANRF norms. HRA is admissible @ 20% as per the certified emolument structure. (TDS as per institute norms.) |
| Essential Qualification | Master’s degree (M.Tech / M.E. / M.Sc. / MCA/M.Plan or equivalent) with a minimum of 60% marks or 6.5/10 CGPA in any one of the following - or a closely related - disciplines: <ul style="list-style-type: none">• Transportation Engineering / Civil Engineering• Computer Science / Artificial Intelligence / Machine Learning / Data Science• Urban or Transportation Planning or equivalent• Applied Mathematics / Statistics• Electrical Engineering / Control Systems• Economics / Behavioural Sciences A valid GATE qualification is required for appointment as JRF (Rs. 37,000 + HRA), as per ANRF norms. |



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| Note | Candidates with strong research credentials but without NET/GATE may be considered for an equivalent Project Associate-I position at Rs. 30,000/- + HRA, as per ANRF norms. |
| Desirable (an advantage, not mandatory) | <ul style="list-style-type: none"> • Interest or coursework in travel-demand / transport modelling, behavioural or discrete-choice modelling, control theory, network science, or agent-based / microsimulation • Machine learning / deep learning (PyTorch / TensorFlow) and programming in Python and/or R • Familiarity with simulation tools (PTV Vissim, AnyLogic, SUMO, MATLAB) • Exposure to mixed-logit models, survey design, or behavioural-data analysis • A record of research output (publications, theses, projects) and the ability to work independently in an interdisciplinary team |
| Age Limit | 28 years as on the last date of application (relaxable by 5 years for SC/ST/Women/PwD candidates and 3 years for OBC candidates, and for candidates with relevant research experience, as per GoI / institute norms). |
| Roles & Responsibilities | <ul style="list-style-type: none"> • Assist the PI in formulating mathematical and machine-learning models (including Behaviour-Informed Neural Networks) of commuter behaviour under nudging • Design and run simulations and empirical validation studies across the study cities • Plan and support behavioural surveys and data collection; analyse mode-choice and behavioural datasets • Contribute to scientific publications, project reports and the open-source simulation toolkit • Any other research task assigned by the PI in line with project objectives |

Position 2 - Field Assistant

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|-----------------------------|---|
| Name of the Position | Field Assistant |
| Number of Openings | One (01) |
| Duration | Co-terminus with the project (up to 24 months). Initial appointment for 11 months, extendable based on satisfactory performance and availability of funds. |
| Salary / Emoluments | Rs. 27,000/- per month + HRA, as per ANRF norms (with increment for experience as per ANRF guidelines). HRA is admissible @ 20% as per the certified emolument structure. (TDS as per institute norms.) |



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| Essential Qualification | Essential Qualification Bachelor's degree in any Science discipline (B.Sc.) or a 3-year Diploma in Engineering & Technology from a recognized University/Institution/Board with a minimum of 55% marks. Desirable / Preferred Qualification Candidates holding a Bachelor's degree in Engineering/Technology (B.E./B.Tech.), Statistics, Geography, Economics, Planning, Social Sciences, or allied disciplines are also eligible to apply. Candidates with higher qualifications may be given preference based on their performance in the interview and suitability for the project requirements. |
| Desirable (an advantage, not mandatory) | <ul style="list-style-type: none">• Experience in field data collection, household / travel / behavioural surveys, or questionnaire administration• Comfort with data entry and basic data handling (MS Excel; Python / R an advantage)• Willingness to travel for field campaigns within and outside Varanasi• Good communication skills; working proficiency in Hindi and English (knowledge of the local language desirable)• Interest in urban mobility, transport or sustainability studies |
| Age Limit | Up to 50 years (relaxable as per ANRF / institute norms). |
| Roles & Responsibilities | <ul style="list-style-type: none">• Conduct and coordinate field data collection and behavioural / travel surveys in Varanasi and other study cities• Administer questionnaires and exit-intercept surveys; manage on-site logistics• Perform data entry and preliminary processing / cleaning of collected data• Maintain field records and assist the research team with day-to-day project tasks• Any other field- or data-related task assigned by the PI |

Tenure & Conditions of Engagement

- Both positions are purely temporary and co-terminus with the project; they do not confer any right or claim to regular employment at IIT (BHU).
- All manpower positions are co-terminus with the project; the appointment is terminable with one month's notice on either side.
- The selected candidate will be expected to join immediately.
- Selectees are not entitled to DA & CCA; medical benefits and leave are as per institute rules. Remuneration is taxable as per norms. The positions are governed by ANRF and IIT (BHU) norms.

Process of Application

1. Download the prescribed application form (annexed below) / from the IIT (BHU) website.



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2. Prepare a single self-attested PDF containing: (i) filled application form; (ii) certificates and marksheets (Class 10 onwards); (iii) NET/GATE certificate (for JRF, if applicable); (iv) experience certificates (if any); (v) detailed CV / resume; (vi) one identity proof (Aadhaar / Passport / Driving Licence / Voter ID / PAN).
3. Email the PDF to agnivesh.civ@iitbhu.ac.in with the subject line “Application for [JRF / Field Assistant] - ANRF Project (011784)” within **21 days** of the date of this advertisement (Deadline: June 28, 17:00).

Process of Selection

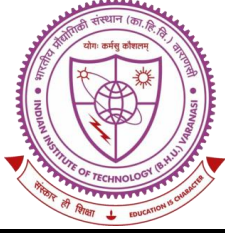
- Shortlisted candidates will be called for an interview at IIT (BHU) Varanasi (online or in person).
- Selection will be made by a duly constituted Selection Committee as per ANRF norms (Head of Department / Institute or nominee, one internal subject expert, one external subject expert, and the Principal Investigator).
- Selection will be based on academic record and interview performance. No TA/DA will be paid for the interview.

General Terms & Conditions

1. Late or incomplete applications will not be considered in any case.
2. Only shortlisted candidates will be informed; no communication regarding shortlisting and/or selection will be entertained.
3. Mere fulfilment of the minimum qualifications does not entitle a candidate to be called for interview.
4. The number of positions may vary; the PI reserves the right to fill, not fill, or modify the positions without assigning any reason.
5. Canvassing in any form will lead to disqualification.

Contact

For any query regarding this advertisement, the PI (Dr. Agnivesh P) may be reached at agnivesh.civ@iitbhu.ac.in



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APPLICATION FORM

(ANRF Project — File No. ANRF/ARG/2025/011784/ENS)

| | |
|---|--|
| Position Applied For (JRF / Field Assistant) | |
| 1. Full Name (in block letters) | |
| 2. Date of Birth | |
| 3. Sex (Male / Female / Other) | |
| 4. Category (GEN / OBC / SC / ST / EWS) | |
| 5. Differently Abled (Yes / No) | |
| 6. Marital Status | |
| 7. Currently Employed (Yes / No) | |
| 8. Email Address | |
| 9. Name of Father / Mother | |
| 10. Correspondence Address (with phone no.) | |
| 11. NET / GATE details (for JRF, if applicable) | |

12. Academic Record (Class 10 onwards):

| Qualification | Institution / University / Board | Year | CGPA / % |
|-----------------------|----------------------------------|------|----------|
| M.Tech / M.E. / M.Sc. | | | |
| B.Tech / B.E. / B.Sc. | | | |
| 12th or Equivalent | | | |
| 10th or Equivalent | | | |
| Any Other | | | |

13. Work Experience (most recent first; add rows if required)

| S.No. | Organisation | Designation | Period (From – To) |
|-------|--------------|-------------|--------------------|
| | | | |
| | | | |

14. Relevant Skills / Experience (briefly describe research, programming, survey, modelling or field experience relevant to the position):

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15. Declaration

I hereby declare that I have carefully read and understood the instructions, and that all entries in this form and the enclosed documents are true to the best of my knowledge and belief.

Checklist of Enclosures: Certificates & Marksheets (Yes/No) ___ Experience Certificates (Yes/No/NA) ___
Detailed Resume (Yes/No) ___ Identity Proof (Yes/No) ___ NET-GATE Certificate (Yes/No/NA) ___

Place: _____

Date: _____

Signature: _____