



DEPARTMENT OF CIVIL ENGINEERING

Dr. Agnivesh P

Assistant Professor

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Advertisement for the position of Software Developer in a Project

Applications are invited from Indian nationals for the position of **SOFTWARE DEVELOPER** to work on a **Toyota Mobility Foundation (TMF)** funded project titled “**CommuteQ – Behavioural Science-Driven Nudges and Gamification-based Digital Interventions for Sustainable Urban Mobility**”, reporting to Dr. Agnivesh P, Department of Civil Engineering, IIT BHU. The description is outlined below.

Name of the Position	Software Developer
Number of Openings	One (01)
Duration	8 months The candidate may be further considered for another 12 months based on satisfactory performance and future trenches of the project grant amount in upcoming financial years
Salary / Emoluments	Rs. 65,000/- per month (TDS as per institute norms)
Essential Qualification	B.Tech in computer science (CSE) or electronics and communication engineering (ECE) with a minimum of 55% marks
Desirable Qualification or Experience	Candidates should be language- and framework-agnostic engineers who get things done - the focus is on working fluently across multiple languages (Go, Dart, TypeScript, Python, C/C++, Rust) and picking up tools as needed. Expertise in Go for scalable backend systems is essential - clean architecture, testing, CI/CD, Docker, and Kubernetes. Strong Flutter skills with an eye for crafting beautiful, polished UIs and smooth user experiences are expected. Hands-on GCP experience including Cloud Run, Cloud SQL, Cloud Functions, Pub/Sub, IAM, and Cloud Monitoring is expected. Strong PostgreSQL and PostGIS skills covering query optimization, indexing, and partitioning are required. Experience with Redis, gRPC, and Protocol Buffers is desirable. Proficiency in LLM integration, AI agent orchestration, RAG architectures, and vector databases is highly valued. Embedded systems development is a plus. Candidates must be capable of package-level engineering — authoring libraries, SDKs, and CLI tools. Proficiency with Uber's H3 spatial indexing and geospatial pipelines is expected. Familiarity with Terraform or similar IaC tools is a bonus. Prior experience with urban transportation or mobility-specific projects is a strong advantage.
Age Limit	28 Years or less
Roles and Responsibilities	The candidate will be expected to assist Principal Investigator (PI) in developing an app-based platform for nudging travellers
Process of Application	<ol style="list-style-type: none">1. Please download the application form from IIT BHU website.2. Please prepare a single PDF file containing the following self-attested documents:<ol style="list-style-type: none">(i) Filled application form(ii) Certificates and marksheets (starting from Class 10)(iii) Experience certificates (if any)(iv) Detailed resume(v) Identity proof (Any one: Aadhaar Card / Passport / Driving License / Voter Identity Card / PAN Card)3. Please email the PDF file to agnivesh.civ@iitbhu.ac.in within 21 days of the advertisement (Deadline: 24/02/2026)
Process of Selection	Candidates found suitable will be called for an interview at IIT (BHU) Varanasi. The final selection will be based on interview performance.
General Terms and Conditions	<ol style="list-style-type: none">1. Late applications shall not be considered in any case.



	<ol style="list-style-type: none">2. Only shortlisted candidates will be informed to appear in the interview, and any communication regarding shortlisting and/or selection will not be entertained.3. Interview shall be held at IIT (BHU) Varanasi in online mode, and no TA/DA will be paid to the candidates, if called for interview in physical mode.4. The selected candidate will be expected to join immediately.5. The appointment is terminable with one month's notice on either side and does not confer any right for extension and/or re-appointment of the candidate.
Contact Information	For any query regarding advertisement and application, PI (Dr. Agnivesh P) may be reached through email at agnivesh.civ@iitbhu.ac.in



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1. Full Name (in block letters):			
2. Date of Birth:			
3. Sex (Male/Female/Others):			
4. Category (GEN/OBC/SC/ST):			
5. Differently Abled (YES/NO):			
6. Marital Status (Unmarried/Married):			
7. Whether Currently Employed (YES/NO):			
8. Email Address:			
9. Name of Father/Mother:			
10. Correspondence Address (with phone number):			
11. Academic Record (Class 10 onwards):			
Qualification	Institution / University	Year	CGPA / %
M.Tech./M.E.			
B.Tech./B.E.			
12 th or Equiv.			
10 th or Equiv.			
Any Other			
12. Work Experience (starting with most recent experience; add rows if required):			
Total Work Experience: _____ Years _____ Months			
S.No.	Organization	Designation	Date (From and To)
13. Software Proficiency for Front-end and Back-end development (<i>The role demands engineers who move fluidly across languages, frameworks, and platforms to deliver results. Primary focus is Go backend development — scalable distributed systems with clean architecture, testing, observability, and structured logging. Strong Flutter proficiency is required with the ability to build pixel-perfect, beautiful interfaces and fluid animations. Production GCP experience (Cloud Run, Cloud SQL, Pub/Sub, IAM, Artifact Registry) is required. Strong PostgreSQL and PostGIS proficiency including performance tuning and migrations is expected. Experience with Redis, gRPC, and Protocol Buffers is valued. The candidate should be proficient in LLM integration, AI agent orchestration, and RAG pipelines. Embedded systems experience is a plus. Package-level engineering is essential: building libraries, SDKs, and CLI tools. Proficiency with Uber's H3 spatial indexing is expected. Familiarity with IaC (Terraform, Pulumi) and GitOps workflows is preferred. Experience with urban mobility applications and urban policy projects is a strong advantage.</i>):			



14. Declaration

I hereby declare that I have carefully read and understood the instructions and particulars on this application and that all entries in this form as well as in the attached sheets are true to the best of my knowledge and belief.

Check-list for Enclosures:

Certificates and Marksheets (Yes/No):

Experience Certificates (Yes/No/Not Applicable):

Detailed Resume (Yes/No):

Identity Proof (Yes/No):

Place:

Date:

Signature:

Candidate may extend the application form to another page, if required.