SRIC/06

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Department of Architecture and Planning)

Dated: ~~03~~/07/2026

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator **Prof. P. S. Chani**, **Department of Architecture and Planning**, Indian Institute of Technology, Roorkee.

1. Title of project: **AMP-GEN: An Automated Material Passport Generation Engine for India's Low Carbon Construction Transition**

2. Sponsor of the project: **Google Centre for Climate Technology via Manthan office of Principal Scientific Advisor (PSA) to the Government of India**

3. Project position(s) and number: **Project Fellow -2 (1)**

4. Qualifications:

   Project Fellow: Ph. D. in Mechanical Engineering or Materials Engineering **with experience in embodied energy and carbon assessment/** Life Cycle Assessment and material degradation analysis.

   Essential Skills:

   1. Minimum 2 years of experience in embodied energy and embodied carbon assessment/Life Cycle Assessment of building materials or construction systems.
   2. Research/project experience in the development, characterization, or assessment of sustainable materials with a government research organization/institution.
   3. Industry experience in business development, including coordination and negotiation with multiple stakeholders.
   4. Working knowledge of SimaPro, Revit/BIM, or equivalent Life Cycle Assessment tools.
   5. At least two Q1 journal publications in the area of material development, material characterization, manufacturing processes, or material performance/degradation analysis.

5. Emoluments: **85,000 + HRA**

6. Duration: **11 months**

7. Job description: To develop degradation models for selected construction materials; collect, review, and document Environmental Product Declarations (EPDs) and related LCA data; analyse BOQs, CPWD items of work, and Analysis of Rates for material-level quantity extraction; develop embodied energy/carbon databases

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for materials, components, and CPWD item datasets; carry out embodied energy, embodied carbon, and construction-phase carbon assessment of legacy building projects and prepare calculation sheets, technical documentation, reports, and graphical outputs for project deliverables.

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the said position should produce the following documents at the time of interview.
   - Application should have a cover letter with detailed CV including chronological discipline of degree/certificates obtained.
   - Experience including research, industrial field and others.
   - Attested copies of degree/certificate and experience certificate.
   - Proof for the key skills mentioned which could include GitHub links, portfolio, certification courses.
3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

Note:

The interview will be held at 11:00 AM on 9/07/2026 at in the Department of Architecture & Planning IIT Roorkee

Tel: +91-1332-285914, +919816992152

Prof. P. S. Chani

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*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

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