

JOB DESCRIPTION

Research Associate for Decarbonisation Catalysts

ALLIANCE FOR AN ENERGY EFFICIENT ECONOMY

Alliance for an Energy Efficient Economy (AEEE) supports policy implementation and enables the energy efficiency market with a not-for-profit motive. AEEE promotes energy efficiency as a resource and collaborates with industry and government to transform the market for energy-efficient products and services, thereby contributing toward meeting India's goals on energy security, clean energy, and climate change. AEEE collaborates with diverse stakeholders such as policymakers, government officials, businesses and industries, consumers, researchers, and civil society organisations. We encourage you to check out some of our flagship initiatives, such as the [India Cooling Action Plan](#), [Solar Decathlon India](#), [State Energy efficiency Index](#), and [our publications](#).

PURPOSE OF THE ROLE

AEEE is looking for a self-motivated, positive and passionate individual with a problem-solving and growth mindset who will join our team to further enhance & empower our brand identity and recognition.

The individual will contribute to AEEE's work on integrating climate mitigation and resilience considerations in the building sector. The role will focus on balancing these considerations with wider imperatives relevant to the Indian context.

ROLE POSITIONING

Designation(s)	Research /Senior Research Associate
Function (Job function)	Decarbonisation Catalysts
Reporting Matrix	Programme Lead/ PRA
Location (City name)	New Delhi, India
Employment type	Full-Time

RESPONSIBILITIES

KEY RESPONSIBILITIES AREAS:

1. Collect, clean, and analyze geospatial, building, and infrastructure datasets using open-source maps and spatial analysis techniques to support urban assessments, data validation, and classification.
2. Develop and support data-driven models to assess energy consumption, resource use, and urban growth, including calculation of key indicators related to energy efficiency, environmental impact, and sustainability.
3. Analyze integrated datasets to extract actionable insights and create clear visual outputs through dashboards and visualizations using tools like Power BI and GIS software.

4. Stay updated on policies, programs, and regulatory frameworks related to buildings, energy efficiency, and climate resilience in India, and map key factors such as think tanks, funders, and research organizations.
5. Research opportunities to leverage government schemes and international best practices for promoting sustainable, resilient, and equitable building practices, especially in affordable housing.
6. Identify and analyze climate vulnerabilities in urban housing, focusing on groups disproportionately affected by heat stress, and contribute to research that supports equitable climate outcomes.
7. Draft and edit blogs, publications, and knowledge content, and contribute to events and communications that showcase AEEE's work and insights.
8. Engage with partners, research institutions, and community organizations to identify priority regions, design pilot projects, and organize stakeholder workshops and consultations across India.
9. Support the planning, coordination, and execution of AEEE's building sector initiatives and project proposals.

KEY PERFORMANCE INDICATORS

GENERAL

- Advanced writing and communication skills in English.
- Strong understanding of geospatial analysis, urban growth patterns, and land use dynamics.
- Proficiency in GIS tools (e.g., QGIS, ArcGIS), Python, and geospatial libraries for data analysis.
- Excellent data visualisation and analytical skills to communicate insights clearly and effectively.

REQUIRED EDUCATIONAL QUALIFICATION & RELEVANT EXPERIENCE

- Postgraduate degree in Geoinformatics, Remote Sensing, Urban/Regional Planning, Data Science, Environmental Science, Civil/Architectural Engineering, or a related quantitative field; a Ph.D. is a strong advantage.
- 0–8 years of relevant experience: 0–4 years for Research Associate, and 4–8 years for Senior Research Associate, with growing responsibility in geospatial analysis, data modeling, and urban sustainability.
- Experience in research, consulting, or government organizations is preferred, with exposure to applied urban research, stakeholder engagement, or project delivery.
- Strong understanding of urban growth patterns, including how cities expand spatially, infrastructure evolve, and land use changes over time.



- Proficiency in GIS tools (e.g., QGIS, ArcGIS) and Python for spatial and statistical analysis (using libraries such as Pandas, NumPy, SciPy, Matplotlib, Seaborn).
- Experience with geospatial platforms and libraries like GeoPandas, or Google Earth Engine, and comfort with visualization tools like Power BI.
- Familiarity with India's energy efficiency policies and building codes (e.g., ECBC, Eco-Niwas Samhita), and an understanding of sustainable building design, thermal comfort, and energy performance.
- Knowledge of remote sensing applications in urban studies, land use/land cover change, and environmental risk assessments is an added advantage.

WORKING AT ALLIANCE FOR AN ENERGY EFFICIENT ECONOMY

WHAT AEEE OFFERS YOU

This an exciting time to join a growing AEEE team and join us at our LEED Platinum certified office in New Delhi. AEEE advocates for data driven and evidence-based energy efficiency policies that will unleash innovation and entrepreneurship within the country to create an energy-efficient economy. We hold **Respect** for all, **Integrity** at all times, **Synergy** within AEEE and **Excellence** at work (**RISE**) as our core values and central to building a culture that is unique to us. We provide a dynamic and progressive environment with opportunities to grow both professionally and personally while contributing to the country's progress. We have a start-up mindset and offer a friendly team environment with the opportunity to work on highly successful and dynamic portfolio of programs where your performance and contributions to the growth of AEEE is the ticket to your professional excellence. We have a strong commitment to our people and strive to live by our values as we listen, learn and provide equal opportunities to young and experienced staffers, and to technical, support function, and individual contributors.

HOW TO APPLY

If you are confident that you meet the above criteria and are excited to be part of the dynamic team at AEEE, we would love to hear from you! To apply for this position, serious candidates are encouraged to complete the following assessment:

<https://app.testgorilla.com/s/3xjiboz0>

To learn more about AEEE and our work, please visit: www.aeee.in

Please note that only shortlisted candidates will be contacted. We sincerely appreciate your interest in joining us.

