

ENGINEERING · RESEARCH · INNOVATION

Global Research Arena

Engineering & Infrastructure Division

A multidisciplinary engineering and research consultancy building better infrastructure through sustainable materials research, structural engineering, and applied innovation.

COMPANY PROFILE
Prayagraj, India · globalresearcharena.com

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About Global Research Arena

Global Research Arena (GRA) is a multidisciplinary platform dedicated to advancing sustainable infrastructure, engineering excellence, and research-driven solutions. GRA bridges the gap between academic research and industry practice — bringing together structural engineering expertise, practical problem-solving, and applied materials research to address challenges faced by the construction industry, infrastructure sector, and research community.

Founder-Led Practice. Global Research Arena is led by Dr. Ashhad Imam, drawing on his twelve years of academic and industry research in concrete durability, sustainable construction materials, and structural engineering. The research record presented in this profile reflects Dr. Imam's individual academic work — the foundation on which GRA's consultancy services are now built.

Why Clients Choose GRA

01 Research-Grade Rigor Every recommendation is grounded in peer-reviewed research methodology, not just industry convention.	02 Practical, Field-Tested Solutions 30+ applied consultancy engagements translating lab findings into real infrastructure outcomes.
03 Advanced Tools & Methods STAAD Pro, ANSYS, XRD/SEM microstructural analysis, and AI/ML-based predictive modelling.	04 Direct Founder Oversight Every engagement is personally overseen by Dr. Imam, with specialist support brought in as projects require.
05 Confidentiality & Integrity Client data and project information are treated as strictly confidential, with NDAs available on request.	06 Publication-Ready Documentation Technical reporting and writing support suitable for SCI/Scopus-indexed publication where required.

SECTION 03

Our Services

GRA offers six core service lines spanning structural engineering, sustainable materials, and academic research support.

Structural Analysis & Design
RCC, steel, and composite structural analysis and design, seismic/wind assessment, and peer design review.

Sustainable Materials & Construction
SCM-based mix design, alkali-activated and geopolymer concrete, and durability-focused material specification.

Technical Solutions for Construction
On-site technical troubleshooting, mix design, and quality-control testing for active construction projects.

Condition Assessment of Structures
Non-destructive testing, corrosion assessment, and durability-informed repair & rehabilitation strategy.

Research & Innovation
Experimental design, microstructural characterization, and AI/ML-based materials performance modelling.

Technical Writing & Publication Support
Manuscript structuring, editing, and pre-submission review for SCI/Scopus-indexed journals.

SECTION 04

Industries We Serve

Residential & Commercial Buildings

Infrastructure & Transportation

Industrial Structures

Water Resources & Environment

Energy & Utilities

Academic & Research Institutions

Founder's Research Credentials

Dr. Ashhad Imam's academic record — the foundation GRA draws on for every engagement:

35 Peer-Reviewed Journal Publications	24 SCIE / Scopus-Indexed Papers	5 Filed Patents
5 Authored / Edited Books	510 Citations (Google Scholar)	30+ Consultancies — Structural Design Vetting, Concrete Mix Design & Sand Grading

Full academic profile, publication list, and patent details available at globalresearcharena.com/research/ and on Google Scholar / Scopus (Author ID 57189270111) / ORCID (0000-0001-8822-8357).

Ready to start a project?

Get in touch to discuss your engineering, materials, or research requirement.

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