

PROFESSIONAL PROFILE

Hossein Barzegar

Concrete Technology Specialist, Technical Educator, Author and Consultant



Evidence-led technical review with assumptions, limitations, verification needs, and responsible project decisions kept visible.

Materials

Production

Performance



Hossein Barzegar works across concrete materials, mixture performance, production quality control, durability, and troubleshooting. His technical writing and consulting approach connects concrete technology principles with the evidence, constraints, testing, and verification needed for responsible decisions.

Technical focus

- Concrete materials and constituent interactions
- Concrete admixtures and dosage response
- Mixture proportioning and moisture corrections
- Ready-mixed concrete production and quality control
- Fresh and hardened concrete performance
- Durability, defects, and technical troubleshooting
- Technical writing, learning resources, and focused training

Working approach

Concrete performance problems rarely have a single cause. A change in workability, strength, stability, appearance, or durability may reflect interactions among cementitious materials, aggregates, moisture, admixtures, temperature, batching, transport, placement, curing, sampling, and testing.

The review process begins with the technical question and the decision the evidence must support. Available records are assessed for traceability and comparability. Observations are separated from assumptions, plausible causes are tested against the evidence, data gaps remain visible, and proposed actions are connected to appropriate trials, testing, and project controls.

Technical communication

Articles and learning resources are developed for concrete producers, precast manufacturers, contractors, consultants, quality-control and laboratory teams, technical directors, researchers, and other industry professionals. The objective is to make concrete technology more usable without reducing complex decisions to unsupported rules or universal formulas.

Consulting availability

Technical consulting may be available for defined questions involving concrete materials, mixture performance, production quality control, durability, and troubleshooting. Remote review is the default starting point. Selected on-site assignments may be considered by arrangement after the scope, information requirements, responsibilities, confidentiality, safety, logistics, and deliverables are agreed.

Professional principle

Recommendations depend on the quality and completeness of the available information. Changes to concrete materials, proportions, production, testing, or construction procedures should be verified through suitable trials, testing, and approval by the responsible project parties.

Contact

Website: <https://hosseinbarzegar.com/>

Email: contact@hosseinbarzegar.com

Last reviewed: 25 July 2026