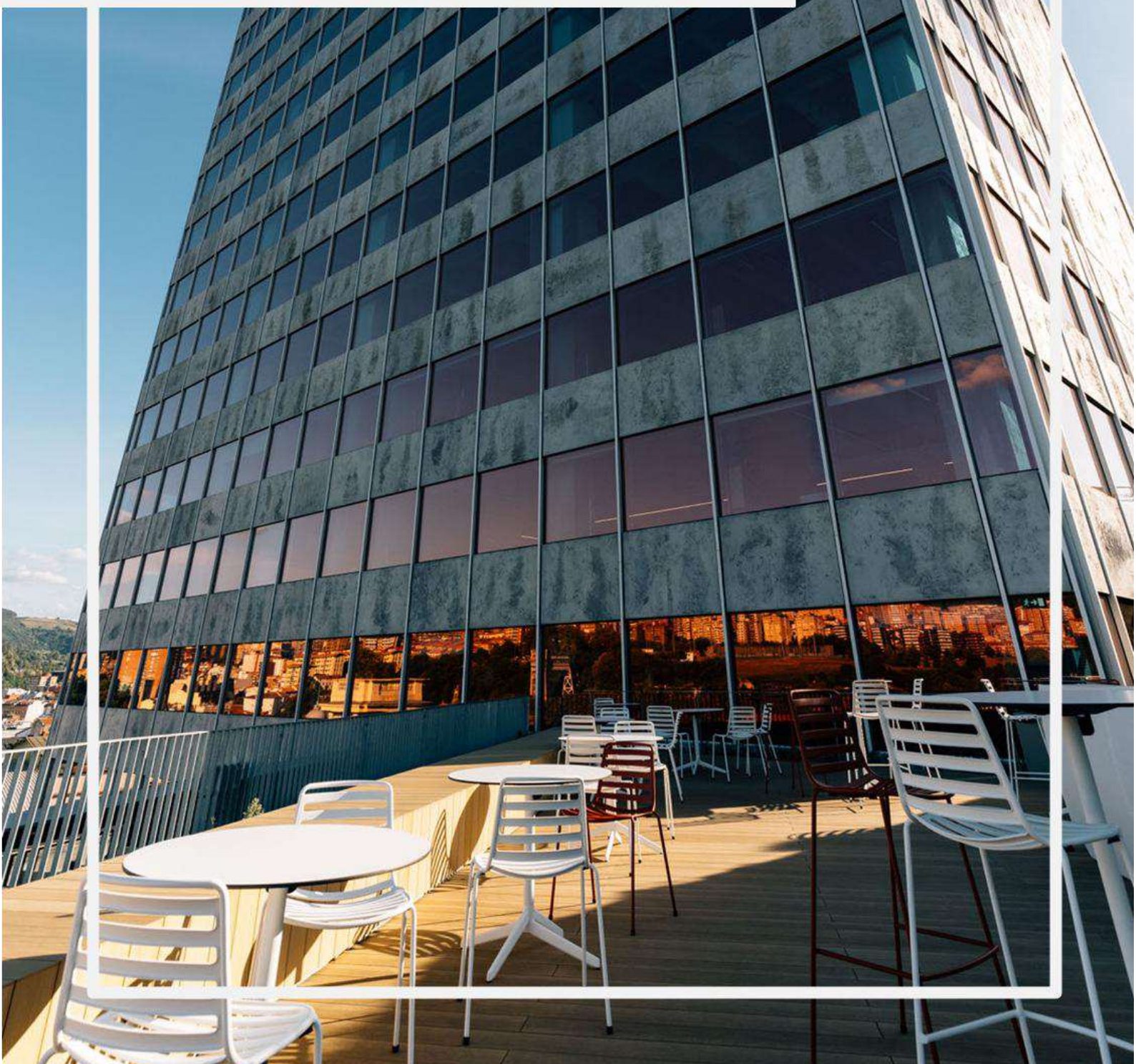




BAT

B Accelerator Tower



Altuna y Uria BAT Challenge on Advanced Materials

1. Background

Innovation, digitalisation and sustainability are the pillars on which **Altuna y Uria** defines its roadmap, strategy and, ultimately, the construction of the future. With a track record of over 60 years, Altuna y Uria is currently one of the leading companies in the construction sector, with proven experience in the execution of landmark projects and participation in the main developments that have transformed the Basque environment. Throughout these decades, innovation and commitment to quality have been its key hallmarks, now further reinforced through the use of new technologies, a strong commitment to sustainability and a clear focus on the industrialisation of construction.

To make this possible, Altuna y Uria relies on a team of more than 400 professionals, with expertise across the entire industrial value chain, and complements its construction capabilities through specialisation in underground works, materials supply, construction machinery, excavation and engineering, rehabilitation works and real estate development. This enables the company to address large-scale projects across two main business lines: civil works and building construction.

BAT B Accelerator Tower, one of the most dynamic and well-connected innovation ecosystems in the world, promotes this challenge with the aim of bringing Altuna y Uria closer to startups, scaleups and technology companies capable of providing disruptive and scalable solutions. Collaboration between established companies and innovative players is key to building the future of the sector and positioning Bizkaia as an international hub for technological entrepreneurship.

2. Challenge Summary

Which new materials or technologies, with co-development potential, can transform residential building construction by improving execution speed, physical performance and sustainability, while being compatible with industrialised processes and viable in real construction environments?

Altuna y Uria aims to identify new materials and technologies applicable in real construction projects that enable a qualitative leap in:

- Speed and efficiency of execution
- Improved physical performance and durability
- Compatibility with industrialised processes
- Low carbon footprint
- Recyclability or reusability
- Optimisation for logistics and manufacturing

Unlike challenges focused on commercial solutions, this initiative seeks technology, differentiated capabilities and co-development potential. Lower TRL solutions are also accepted, provided there is a strong team, a clear technological vision and a collaborative mindset.

3. Challenge Description

The current situation of the construction sector requires that any initiative generates a tangible and direct impact on construction processes. This challenge addresses innovation in materials from multiple perspectives and is open to a wide range of technological approaches, from advanced materials and modular solutions to more exploratory proposals:

1. Structural materials

Which new structural materials or solutions can significantly improve strength, durability, mechanical performance and sustainability, while remaining viable for residential buildings and compatible with industrialised processes?

Proposals may include advanced concretes (UHPC, geopolymer-based, low-clinker, etc.), self-healing bioconcretes, advanced structural timber (CLT, LVL), lightweight composite materials (FRP), high-performance or recycled steels, as well as hybrid solutions (timber–concrete, steel–timber) and innovative structural systems optimised for off-site manufacturing.

2. Envelope and roofing materials

Which materials or solutions for building envelopes can significantly improve energy efficiency, airtightness and durability, while incorporating active functions and remaining compatible with industrialised residential construction?

Proposals may include high-performance thermal panels (VIPs, aerogels), industrialised façade systems, smart roofing solutions, active envelopes (photovoltaic integration, energy harvesting), advanced waterproofing materials, as well as circular or demountable systems that facilitate reuse and recycling.

3. Interior partition materials

How can interior construction be accelerated, comfort improved and waste reduced?

Examples include modular systems, lightweight materials, demountable solutions and recycled components.

4. Other innovative materials applicable to construction

In addition to new-build projects, this area also includes specific opportunities for refurbishment and renovation, particularly materials that enable fast and reversible interventions, compatibility with existing structures, or improvements in the energy efficiency of existing buildings.

Examples include biomaterials, smart materials, 3D printing, CO₂-capturing materials, functional composites, among others.

4. Technical requirements and specific objectives

Altuna y Uria will value technologies and materials that provide:

- Low environmental footprint or circularity
- Prefabrication potential or rapid installation
- Clear performance improvements: insulation, strength, durability, safety
- Additional functionalities (CO₂ capture, self-healing, thermal regulation, climate responsiveness)
- Regulatory compatibility or certification potential
- Traceability capabilities (materials passport, BIM integration, life-cycle digitalisation)
- Industrial scalability potential in later phases

The objective of the challenge is to create future collaboration opportunities, and its milestones will be updated as the initiative progresses:

- Exploration of emerging technologies and collaborative maturation
- Co-development of new materials and support in certification/validation processes
- Proofs of concept or testing with validation in real environments
- Exploration of new products or business models

5. Profile of target applicants

The challenge is aimed at identifying startups, scaleups, technology centres or research teams with:

Note: It is not necessary to have started commercialisation or to have a final product.

- Technologies at TRL 3–8 (flexible)
- Differentiated capabilities in materials or processes
- Clear willingness to co-develop with a corporate partner
- Strong technical team and long-term vision

Applicant companies may or may not belong to the BAT B Accelerator Tower business community.

For clarity and transparency, this challenge is not seeking:

- Traditional material suppliers without innovation
- Standard materials or undifferentiated commodities
- Projects without real collaboration or pilot potential
- Solutions that cannot be tested in a realistic environment
- Purely commercial proposals

6. Main phases and milestones

PHASE	DATE	MILESTONE
Application reception period	27/03/2026 to 03/05/2026	Call opening and closing
Application evaluation	04/05/2026 to 12/05/2026	Internal evaluation
Announcement of selected candidates	13/05/2026	Candidate notification

Meetings between selected companies and Altuna y Uria	25 & 26 /06/2026	In-person meetings with Altuna y Uria during B Acceleration Week*
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Each selected startup/tech company must participate in B Acceleration Week (25–26 June 2026), joining all activities and attending a business meeting with Altuna y Uria.

B Acceleration Week is BAT B Accelerator Tower’s flagship annual event and a benchmark in Bizkaia’s innovation and tech entrepreneurship ecosystem. Selected applicants gain visibility before more than 50 corporations and other relevant actors, as well as presence in BAT’s own publications.

To facilitate participation, selected startups/tech companies may receive financial assistance subject to the conditions described in section 8.

7. Application Process

- Applications may be submitted from 27/03/2026 to 03/05/2026.
- Applications must be submitted through the BAT B Accelerator Tower website under “Open Opportunities”.
- Applications must be in Spanish or English.
- Only one application per company will be evaluated (the latest submitted).
- Applications must include a mandatory 1-page summary in English and a Company Deck in English or Spanish.
- A confirmation email will be sent automatically upon submission.

8. Selection process

The selection process will be led by the challenge-promoting company based on the following criteria:

- Alignment with the proposed challenge.
- Maturity of the proposed technological solution.
- Competitive advantage of the proposed solution.
- Market traction and business model.
- Team experience and company capabilities.

All requirements must be accredited through the application form and any additional documentation that may be attached.

Once selected, companies must attend an in-person business meeting during B Acceleration Week (25–26 June).

To support participation, BAT B Accelerator Tower will provide economic assistance to cover travel and accommodation:

- Up to €400 for Spain-based companies.
- Up to €1,000 for EU-based companies.
- Up to €2,000 for non-EU companies.

The reimbursement covers flights and hotel only (no 5-star hotels or business-class flights). Only one trip to Bizkaia is covered. Reimbursement is processed after the trip upon receipt of invoices and banking details within 30 days.

9. Relationship between the promoting company and candidate companies

Throughout the initiative, candidates must dedicate the necessary resources, including decision-making and technical representatives capable of responding to official communications.

Representatives must be over 18, hold a C-Level position, and be fluent in English or Spanish. They must meet all legal requirements to attend activities in the Basque Country and remain compliant with tax and social security obligations.

All notifications will be sent via email. Candidates must also provide a phone number for necessary communications.

10. Acceptance of Terms and Conditions

Participation in this initiative implies full and unconditional acceptance of these Terms and Conditions.

11. Confidentiality and data protection

Applications and all related documentation will be treated as confidential by the challenge-promoting company.

Applicants accept the use of basic project data during evaluation and selection processes.

Participation does not grant any intellectual property rights over submitted content. Applicants must guarantee they hold all necessary rights and authorizations.

Submissions must not include offensive content or violate fundamental rights or legal standards.

Applicants authorize the promoting company to use their name and image in challenge-related dissemination materials, including online, without compensation.

12. Intellectual Property Rights

Applicants guarantee they hold exploitation rights for all products, services, patents, or other submitted content. They will hold the promoting company harmless from third-party claims.

Joint co-creation agreements, if any, will be formalized separately.

13. Responsible declaration

By submitting their application, candidates declare that:

- Their submissions are original or properly licensed.
- They have consent from any individuals whose data appears in the application.
- The information provided is not confidential or, if so, is authorized for use.
- They have the legal capacity to participate and comply with all regulations.
- They will assume any taxes derived from participation.
- The promoting company is not responsible for damages or losses arising from participation.

14. Contact and resolution of doubts.

In case of any discrepancy between the English version and the Spanish version, the Spanish version shall prevail as the official version of the document.

For any questions, contact the BAT B Accelerator Tower management team at:

info@bacceleratortower.com

Official website:

[\[BAT B Accelerator Tower\]](#)