

**BUAP's Directorate for Innovation and Knowledge Transfer (DITCo)** is the institutional unit responsible for connecting the university's research capabilities, laboratories, and specialized talent with the needs of industry, government, and society. DITCo promotes the transformation of academic knowledge into practical solutions by facilitating collaboration, developing applied projects, and enabling the transfer of results with real-world impact.

Through its technology transfer and innovation functions, DITCo supports the identification and maturation of promising developments, the protection of intellectual assets (e.g., patents and other IP mechanisms), and the structuring of partnerships that can lead to licensing, collaborative R&D, specialized services, and entrepreneurship initiatives. DITCo also helps articulate BUAP's innovation ecosystem by fostering multidisciplinary collaboration and building strategic networks that accelerate the adoption of science and technology for regional and national development.

The **Laboratory for Innovation and Applied Materials (LIMA)** is a BUAP hub within DITCo dedicated to transforming advanced materials research into practical solutions for industry and society. LIMA builds on BUAP's institutional trajectory in non-destructive analytical testing, originally developed through an advanced center specialized in non-destructive characterization of materials. This foundation positioned the laboratory to support both scientific research and high-value industrial problem-solving, enabling rigorous analysis while preserving the integrity of components and samples.

From its origins, LIMA has operated with a strong collaborative vocation, working with academic groups, public institutions, and industrial partners to address real challenges where materials performance is critical. Its work is organized around the design, characterization, and validation of materials and processes with a clear application focus—supporting technology development, optimization, and decision-making for partners that require reliable, science-based results.

LIMA's research portfolio includes advanced materials for environmental and industrial applications, such as functional materials and approaches aimed at the removal of contaminants from water, and the development and evaluation of membranes and thin-film materials relevant to remediation and packaging-related performance. The laboratory also contributes to strengthening the innovation ecosystem by connecting research outcomes with technology transfer pathways, including applied development projects and collaborative R&D.

On the services side, LIMA provides materials characterization and non-destructive evaluation to support R&D, quality assurance, failure analysis, and product/process improvement. Its analytical capabilities enable detailed assessment of internal structures, defects, porosity, and structural integrity without destroying the part, delivering actionable insights for engineering decisions and scientific validation. Through its integrated research-and-service model, LIMA helps partners reduce uncertainty, accelerate development cycles, and translate materials science into measurable impact.