

Materials Research Center

MRC

Powering the Future of Innovation

Unlock the potential of transformative materials research by partnering with American University of Sharjah (AUS) and supporting the state-of-the-art Materials Research Center (MRC). Your contribution will be instrumental in fostering groundbreaking research and innovation in interdisciplinary fields.

MRC functions as a hub for interdisciplinary research, combining sciences and various branches of technology to discover new solutions in the energy, environmental, healthcare and construction sectors. Your support amplifies the impact of innovative research across diverse scientific domains.

Facilities

Materials Fabrication Facility

- Features cutting-edge femtosecond lasers, pulsed laser deposition systems and ultra-high vacuum chambers
- Enables synthesis of nanoparticles, quantum dots, thermal treatments, metal alloy fabrication, metal 3D printing, thin film deposition and surface coatings

Materials Characterization Facility


- Features advanced spectroscopy and testing instruments for physical property measurements, spectrometry, microscopy, surface analysis, electrochemistry and structural testing
- Supports research in energy, environment and nanoelectronics

Chemical Analysis and Synthesis Facility

- Hosts instruments such as spectrometers, gas and liquid chromatography, and surface characterization tools
- Enables synthesis and analysis of compounds for catalytic, environmental and energy applications

Mechanical Properties Facility

- Hosts universal testing and hardness measurements machines
- Contributes to the evaluation of mechanical and structural properties in aerospace, construction and other critical domains



Contribute to Progress

By contributing to MRC, you actively collaborate in advancing materials research that shapes the future. Your investment supports cutting-edge technologies, facilitates collaboration and propels breakthroughs that benefit industries and communities alike.

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