Materials Research Center

Powering the Future of Innovation

Unlock the potential of transformative materials research by partnering with American University of Sharjah (AUS) and supporting the state-ofthe-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

MRC

Materials Fabrication Facility

- Features cutting-edge femtosecond lasers, pulsed laser deposition systems and ultrahigh 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

Naming Opportunity

Ten-year naming rights for

AED 30 million (depleted after 10 years)

Recognition

- Recognition and naming rights
- Personalized updates
- Donor's Wall
- Gratitude Park
- Impact reportsInvitations to events
- Collaborative projects
- Advisory role
- Press releases
- Media interviews
- Lecture series
- Educational experiences
- Storytelling podcasts
- Exclusive communication channels
- Recognition in academic circles and publication citations
- Annual appreciation event
- Campus engagement and research updates
- Naming of a legacy tree on campus

Pillars	Recognition and naming rights	Personalized updates	Donor's Wall	Gratitude Park	Impact reports	Invitations to events	Collaborative projects	Advisory role	Press releases and media interviews	Lecture series	Educational experiences	Storytelling podcasts	Exclusive communication channels	Recognition in academic circles	Annual appreciation events	Campus engagement and research update	Naming of facilities	Access to research outcomes	Patent co- sponsored	Personalized plaque	Publication recognition	Recognition signage
amed Endowed Chair-Accomplished Full Professor ED 15 million; Perpetual) Forever named after the donor. Created under the center's activities.																						
amed Endowed Professorship-Associate Professor IED 5 million; Perpetual) Forever named after the donor. Created under the center's activities.																						
amed Visiting Scholar in Residence KED 1.5 million over two years) Covers salary and benefits of an Associate or Full Professor. Covers research funding, visiting scholars, publications, research activities, seminars, workshops and bi-annual conferences.																						
amed Post-Doctoral Fellowship VED 1.1 million over two years) Covers salary and benefits. Covers research funding, visiting scholars, publications, research activities, seminars, workshops and conferences.																						
raduate Fellowship (Named Fellows) Option One: AED 200,000/year for a full-time student. Option Two: AED 100,000/year for a part-time student.																						
aming of Facilities LED 3 million over three years) Furnishing and equipment setup																						
esearch Projects Funding Fach project AED 1 million) Ultrafast Lasers for Probing and Manufacturing Novel Functional Materials: Utilizes state-of-the-art ultrafast lasers to synthesize advanced functional materials and nanostructures. Applications include development of novel sensors for detecting of biomolecules and pollutants, in addition to building catalysts for green hydrogen production, and for using and capturing CO2. Functional Magnetic, Superconducting and Electronic Materials: Aims to develop functional materials with unique magnetic, superconducting and electronic properties suitable for diverse device applications. Metals, High/Medium Entropy Alloys and Shape-Memory Alloys: Centered around the development of metals, high/ medium entropy alloys and shape-memory alloys, with applications spanning health care devices, aerospace, and civil engineering and infrastructure. Advanced Coating Techniques: Seeks to advance coating techniques for corrosion protection, solar cell enhancements and sensor developments. Functional Organic Polymers: Focuses on electrode/ electrolyte interfaces, and involves developing functional organic polymers that can be used in environmental																						

Contribute to Progress

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

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