

Council for Development of Advanced Manufacturing and Material Technologies

In the Name of God

Funding Opportunity Title:

Device Design and Development for Integrated Membranes

Introduction:

The Vice-Presidency for Science, Technology, and Knowledge-Based Economy Affairs (ISTI) of Iran, in partnership with the Advanced Materials and Manufacturing Council (AMMC) and The Mustafa Prize Investment and Endowment Fund (MPIEF), are announcing call for collaborative research projects. This opportunity is open to Iranian researchers affiliated with higher education or research institutions and distinguished Muslim researchers from high-ranked universities worldwide. The focus of this call for proposal is to design integrated membrane devices (IMDs) for research studies and applications developments.

Goals and Research Themes:

The primary objective of this research call is to foster and enhance interdisciplinary collaboration among Iranian and global Muslim researchers in the field of water treatment membrane architectures. It also aims to simplify the manufacturing and development processes in thin film deposition methods in IMDs for Islamic nations. Research proposals related to the conceptualization and realization of the layer by layer deposition methods, multifunctional membranes, copy from integrated circuit ULSI design themes adopting synthesis routes from integrated circuits multistep continuous fabrication methods are welcomed. Research themes include but not limited to:

- ✓ Development of IMDs for specific applications:
 - Sea water desalination
 - Treatment of waste water
 - In-house or local municipalities water treatment sites
- ✓ The most versatile IMD fabrication routes:
 - Deposition systems
 - Wet chemical based thin film deposition methods
- ✓ Designing sensor and instruments as embedded in IMD`s architectures

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Funding Details:

- ✓ Selected projects will receive joint funding from ISTI and AMMC of 10,000 USD.
- ✓ MPIEF will also fund projects with an additional 10,000 USD.
- ✓ The funding period for projects is one year, with the possibility of a 3-month extension without extra funding.

Researchers interested in this funding opportunity are encouraged to prepare research proposals in line with the specified research themes and sub-topics. This call for proposal aims to support innovative research in the field of IMDs and promote collaboration among researchers in the Islamic world and beyond.