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LEADERSHIP POSITIONS

ACADEMIC VACANCIES

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GENERAL APPLICATION

Job Details

Posting Date 02/Jan/2024 Expiry Date 30/Jan/2024 Job Reference Number: 2229-2024-01-02T11:47:50

RESEARCH ASSISTANT OR POSTDOC – MODELING AND OPTIMIZATION OF SUSTAINABLE OPERATIONS AND SUPPLY CHAINS

CATEGORY Research

COLLEGE Departments

DEPARTMENT Rise – Research Institute of Sciences and Engineering

JOB PURPOSE The Research Institute of Sciences and Engineering (RISE) is seeking to hire a full-time Post-Doctoral Fellow position in Modeling and Optimization of Sustainable Operations and Supply Chains

MAIN ACCOUNTABILITIES & EXPECTATIONS

- Conduct independent and collaborative research in a maximum number of the following areas:
- Energy and Carbon efficiency in Supply Chains and Operations: Inventory, Transportations, Distribution, Manufacturing, Healthcare,
- Sustainable development goals: solutions and initiatives in the design and management of supply chains to achieve SDGs,
- knowledge in waste management, sustainable transportation, renewable energy management, digitization in manufacturing
- Developing models and algorithms for decision making: Integer Linear programming, Metaheuristics, Multi-objective optimization, Multicriteria decision making, Flow simulation
- Use of Artificial Intelligence, System Dynamics, Structural Equation Modeling, and Simulation to evaluate alternatives in supply chains and operations
- Scientific computer-assisted review methodology: bibliometric analysis
- Write and debug high-quality research codes and research papers.
- Document research by publishing papers in peer-reviewed journals and presenting papers in conference proceedings.
- Design and implement experiments to test research ideas on a variety of problems.
- Co-supervise junior researchers.
- Collaborate with your supervisor and other researchers to discuss, develop, and implement the research agenda.
- Perform other related duties as assigned.
- Follow all University policies and regulations for safe working procedures

REQUIRED SKILLS

- Strong research background in optimization and programming and other tools for decision-making
- Strong knowledge and experience in sustainability, waste management, renewable energy, circular economy
- Experience solving complex problems and comparing alternative solutions, trade-offs, and diverse points of view to determine a path forward.
- Strong experience in data analytics and bibliometric analysis is a plus

- Publications at top-tier peer-reviewed journals.

DESIRABLE REQUIREMENTS

- Educational background in engineering or in computer-related field.
- It is necessary to have a strong knowledge of programming languages (C, C++, MATLAB, Python)
- Strong knowledge of optimization techniques: heuristics, metaheuristics, Integer Linear Programming, and hybrid algorithms
- Previous research in the application of optimization techniques in engineering areas.
- Demonstrated ability to conduct high-quality research and to develop implementations to evaluate the results.
- Evidence of strong oral and communication skills
- Must be willing to work in a team environment and assist co-workers or supervisors with other duties as required

JOB LOCATION

University of Sharjah (Main)

JOB CRITERIA

GENDER , Male, Female,

QUALIFICATIONS Phd

RELEVANT EXPERIENCE 2

LIVING IN UAE Open for all

NATIONALITY ,All,

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