**LECTURER** - **COMPUTER SCIENCE**

**Faculty of Engineering & IT**

**About the British University in Dubai (BUiD)**

The University has been formed out of a genuine collaboration between Dubai and United Kingdom institutions to provide the best of British education in Dubai. BUiD has been established to make a substantial and unique contribution to the United Arab. Our UK associates, the Universities of Edinburgh, Manchester and Glasgow have been chosen because of their research standing and high standards. The University’s vision is to continue to be recognised as Dubai’s premier resource and focus for the reflective pursuit, inclusive accessibility, effective transfer, and liberal application of scientific, academic and professional knowledge. BUiD is a non-profit organisation with a mission to provide world class scholarship, education and research that make a distinctive British contribution to supporting the aspirations of the Dubai Government to become a hub for education and research in the region.

The Faculty of Engineering and IT, as part of its ongoing success and growth, is inviting applications from Computer Science professionals with expertise in theoretical computer science, focusing on areas including but not limited to:

**Computational Complexity:** communication, query, circuit, algebraic, and proof complexity; coding theory; fine-grained complexity; quantum computing and quantum information theory.

**Algorithm Design and Analysis:** randomized algorithms; approximation algorithms; parameterized complexity and fixed-parameter tractability; data structures; streaming algorithms and sublinear-time algorithms; online algorithms, learning-augmented algorithms; combinatorial optimization; mathematical optimization and linear programming; distributed computing.

**Algorithms for Artificial Intelligence:** theoretical foundations of algorithms for AI; theory of bio-inspired optimization algorithms and evolutionary computation; randomized search heuristics; automated algorithm selection, generation, and configuration (parameter tuning).

**Algorithms for Cybersecurity:** cryptographic algorithms, network security, machine learning for threat detection, secure blockchain protocols, formal verification methods, secure software development, data privacy techniques, intrusion detection systems, post-quantum cryptography, biometric security, access control mechanisms, and secure communication protocols.

**Algorithmic Game Theory:** mechanism design and combinatorial auctions.

The candidate hired for the position **must have**

* **A PhD (degree received not working towards) in Computer Science, Computer Engineering, or a relevant field from an accredited university (PhD in Information Systems or related fields is not suitable for any of these positions). Equivalency of the PhD Certificate is subject to approval from UAE’s Ministry of Education. The candidate for this position is expected to have 0-3 years of experience post-PhD.**
* A promising track record or trajectory of research at an international level and demonstrated the ability to publish in high ranking journals and conference in computer science or other relevant areas. Candidates should have experience undertaking research in the aforementioned fields with strong analytical and mathematical skills.

Other **desirable** qualifications:

* Experience in the Middle East and teaching multicultural groups.
* Experience in teaching and research in algorithms, computational complexity, formal methods, and logic.
* Experience in the supervision/co-supervision of Masters and PhD students.
* Experience contributing to the growth and development of the Computer Science curriculum at both the undergraduate and postgraduate levels.
* Experience in teaching a broad range of computer science courses at the undergraduate and postgraduate levels.
* Industrial practical experience.
* Relevant professional qualifications.

**Application Process**

You are required to provide the following:

1. Application cover page
2. Recent and up-to-date CV; should include a summary of employment history, modules taught, student supervision & completions, impact of research, research funding, and a list of ISI or Scopus indexed journal publications.
3. A letter of application
4. A statement of teaching and philosophy of teaching
5. A statement of research interest and methodologies
6. Theoretical computer science portfolio and/or samples of student work
7. The names and contact details of three recognized referees.

Note: The appointment is subject to the successful completion of all Labour and Immigration formalities which could be delayed beyond the control of the University. In such a situation, the start date for employment will be postponed.

The closing date for the application is **Sunday 2 February 2025**.

Share your documents with careers@buid.ac.ae

Only shortlisted candidates will be contacted.