

# FSG TRAILBLAZING IN 2020

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## VISITING RESEARCH FELLOW AT ABU DHABI UNIVERSITY, UNITED ARAB EMIRATES

Dr. Abdel-Baset M. A. Ibrahim had successfully secured a position as a Visiting Research Fellow at the Department of Applied Sciences and Mathematics, College of Arts and Sciences, Abu Dhabi University (ADU). The program is initiated by ADU to enable their researchers to jointly work with international researchers to contribute to nationally and regionally relevant areas of research. The programme allows established researchers to join ADU as Visiting Fellows or Senior Visiting Fellows based on the needs of individual projects. Candidates are expected to be accomplished researchers publishing at the highest level in their fields. They should also have experience in supporting the development of less experienced researchers and working in teams. Joint publications and collaborative research programmes with ADU researchers are the key outcomes of this initiative. The collaboration aims to build productive teams comprising of international research experts and ADU researchers as well as cultivate fruitful transfer and sharing of knowledge to benefit both parties. Based on performance, the Fellowships may be extended.



Under this programme, Dr. Abdel-Baset M. A. Ibrahim has been working with Prof. Hichem Eleuch, head of the quantum optics group in a project entitled “Quantum properties of light propagating in a Kerr nonlinear coupler”. The first appointment started in September 2018 until August 2019 and the second appointment started in December 2019 until December 2020. Prof. Eleuch is also a member of Prof. M. O. Scully's research group at the Institute of Quantum Science and Engineering, Texas A&M University. Some fruitful results of this collaboration have been published in profound international journals such as the Journal of Modern Optics, Chinese Physics B, Journal of Electromagnetic Wave and Applications, Optical Review, and International Journal for Light and Electron Optics (OPTIK).

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