

Muhammad Maqbool, Ph.D.

Editor Nanoscale Research Letters,
Editor Metals and Metallurgical Engineering,
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Advanced Radiation Research,
Associate Professor of Physics & Health Physics,
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To
Professor Dr. Robert Duncan,
Associate Professor of Physics Search
Texas Technical University.

Subject: **Application for the position of Associate Professor Physics at TTU.**

Dear Professor Duncan,

My name is Muhammad Maqbool. I work as a tenured Associate Professor of Physics & Health Physics at the University of Alabama at Birmingham (UAB). I have worked as a tenured Associate Professor of Physics & Astronomy and In charge of Optics & Photonics Research Group at Ball State University, Indiana, USA, from 2008 to 2017. I have obtained my Ph.D. degree in Experimental Condensed Matter Physics from Ohio University, USA, in 2005. I obtained my Master degree in Medical & Radiation Physics from the University of Birmingham, UK. I have over 15 years of research experience in the optical spectroscopy of thin film optical materials growth, fabrication, characterization and application in optics & optoelectronics, laser cavities, energy saving optical materials and biomedical applications. I have over 16 years of experience teaching to graduate and undergraduate students. I have over 8 years of administrative experience.

I found that the position of Associate Professor in Physics is available with you at Texas Technical University. I am very interested in this position and would like to place my application for this position. Due to my 7th year as an Associate Professor I would be glad if considered for a Full Professor position. My research interests for this position are ***Thin Film Optical & Nano Materials for Energy saving optical devices, laser cavities, biophotonics and and biomedical applications.***

I am a skilled and experienced person and can bring expertise to your Institute in the areas of scholarly research, teaching, and services. In the area of research I am offering my over 15 years' experience of high quality research in experimental condensed matter physics applied to energy saving optical materials and devices in which I obtained over US\$500000.00 in research funding from various funding agencies like NSF, IAS and other funding agencies. I have been the adviser / committee member of 5 Doctoral students, 11 Master students, and over a *dozen undergraduate students* in their research projects. I have also worked as an external reviewer of Ph.D. dissertation of 8 doctoral students. At the moment I work as a member of a graduate (doctoral) student whose research work is in the optical

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spectroscopy and laser cavities. I got patent for inventing the Smallest Infrared Titanium Semiconductor Ring microlaser in optical fibers (Patent # US9515447 B2). This is also the smallest Semiconductor Ring Laser (SRL) ever produced. https://en.wikipedia.org/wiki/Semiconductor_ring_laser . I publish my work regularly in highly reputed journals. So far I have published over 66 peer-reviewed papers and Book Chapters. I have over 15 years' experience teaching at graduate and undergraduate levels. My students' evaluations both on graduate and undergraduate levels are excellent.

Besides research and teaching I have broad experience of academics and curriculum as well. I developed a curriculum for the Optics and Spectroscopy Laboratory for graduate and undergraduate student in Physics here at BSU. I have contributed to the development of curriculum for the Master of Science in Materials Science & Technology program at Qatar University. In my previous institute (University of Mount Olive, North Carolina USA) I developed the Pre-Engineering curriculum.

I have also contributed to the academic community in terms of Services. For example I work as Chair of the organizing committee for the American Physical Society Ohio Section Fall-2011 Meeting. I worked as Chair of the Undergraduate Committee and Graduate Committee and member of over a dozen committees at the University and the department level here at Ball State University. At Mount Olive University I worked as a faculty Senator for two years. My work as Organizing Chair of the American Physical Society fall-2011 meeting, member of the Admissions and Credit Committee at BSU, Exam Editor/Writer for American Institute of Research, Editor of the journals 'Nanoscale Research Letters' and 'Metallurgical and Materials Engineering' and Reviewer of many highly ranked journals, show the strength of my contributions in the area of services to the academic community. I have worked over 3 dozen academic committees. At the moment I work in a number of committees here at UAB.

With these skills, experience and qualification I am putting my application for the position of Associate Professor in Physics available with you at Texas Technical University. You are requested to please give full consideration to my application.

With best Regards,



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