

Texas Tech University  
Lubbock, TX 79409

November 04, 2018

Dear Chairperson, Search Committee

In response to the posting on the University's website for the position of tenure-track Assistant Professor of Physics (posting#: 15145BR), I am submitting my application for your consideration. This position is of particular interest to me as it presents an opportunity to apply my interpersonal, teaching skills, management and most importantly my research experience as principal investigator to fabricate micro/nano materials, and their microscopic characterizations and applications.

I have been involved in teaching since 2002. In Nepal, I taught Undergraduate Physics for 3 Years at Tribuvan University. Similarly, after moving to the United States to pursue my PhD degree in Physics at the Boston College, I continued my teaching passion by teaching introductory physics laboratory courses as a teaching assistant for 2 years. Furthermore, I taught diverse physics courses that includes introductory Physics laboratory, Classical Mechanics and Solid State Physics. Through my teaching experience, I have been able to experience the pleasure of leading classroom discussions to inspire students to learn about the material and I have also enjoyed the personal challenge of transforming new materials, into useful discussion sections every week that would make both teaching and learning experience more fun and interesting.

Apart from my teaching experience, I have been also extensively involved in scientific research. During my graduate years, I was investigating about the fabrication of high performance nanostructured materials and their applications. I have published my research works in high impact journals. After completing my PhD degree, I have been leading a research and development team in Industry to manufacture high performance thermoelectric nanocomposite and magnetic materials and devices to use as power generation devices in vehicles, Boilers, and magnetic cantilevers. As a manager, my responsibilities included materials and device research, electrical, thermal, mechanical and macro/microscopic characterizations and applications of such materials. I have also delivered papers at conference meetings such as APS March Meeting, ICT conferences, managed grant proposals, collaborated research projects with different Universities and Industries and drafted patents. I am confident my professional skills will match well to the University requirements as a Professor.

Amidst these, my post PhD teaching experience does not involve teaching undergraduate students in classroom settings but in industrial research settings. I had the opportunity to mentor summer undergraduate students and teach junior scientists about the scientific background pertaining to our research and also technical skills required for the cutting edge scientific investigation, which has further polished and diversified my teaching skills. Additionally, my devotion in research with journal publications and funding proposal drafting reflects my interests that I expect to resurface in teaching context in the future. Furthermore, condense matter physics and related genres make excellent material for courses on undergraduate and graduate level science, and I eagerly welcome the opportunity to develop such a course at some point.

I would enjoy further discussing this position with you in future. In the meantime, I am enclosing my curriculum vitae, research statement, teaching philosophy, transcripts and references. If you require any additional materials or information, I would be happy to supply it.

Thank you for your consideration.

Sincerely,  
Giri Joshi