



SIDI MOHAMED  
BEN ABDELLAH  
UNIVERSITY

May 13, 2019

**Walid BELAID**

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Queen Mary University of London  
School of Physics and Astronomy  
London, United Kingdom

**Object:** Application for the PhD position in advanced characterization of next generation battery materials

Dear Sir or Madam,

I am BELAID Walid, Currently I am a second year PhD Student, I have a Master's degree in New Materials' Physics and renewable energies (PNOMER) at Sidi Mohamed Ben Abdellah University, and I wish to submit my application for the the PhD Research at Queen Mary University of London, School of Physics and Astronomy, London, United Kingdom.

I wish to complete the knowledge and skills I acquired during my training in the field of nanomaterials investing in the numerical study of Quantum Wells. The Master's internship at Solid State Physics Laboratory on the Study of the effect of internal parameters on the properties of III-nitride-based Nano objects (Quantum Dots and Wells), and also the results I obtained on the effect of several parameters (the size of quantum wells / barriers, the position of impurities and the internal composition) on the binding energy of multiple quantum wells using analytical calculations and Python programming, confirms me on this choice.

This thesis experience in a research group, with all these high specifications, will certainly allow me to acquire a solid base in Physics and Nanotechnology. The combination of numerical simulations, analytical calculations and experimental work is one of my special skills.

Hoping that my request will hold your attention, I stand at your disposal to explain my intention to you. Thank you very much for considering my application.

Yours faithfully,

**Walid BELAID**