

Mohamed Abuella

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Cover Letter

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Dear Sir/Madam,

I am Mohamed Abuella, who received a B.Tech from College of Industrial Technology, Misurata, Libya, and M.Sc degree in Electrical and Computer Engineering from Southern Illinois University Carbondale in 2012, and a Ph.D degree in Electrical Engineering from the University of North Carolina at Charlotte in 2018.

I like working in a diverse environment for an interdisciplinary research. My research interests include economic planning and technical operation of electrical power systems.

In my undergraduate program, I studied NEPLAN, a software for electric power systems design & analysis, and simulated it by using MATLAB to reproduce the calculations of power flow and fault analysis of power systems.

During my M.Sc thesis I have worked on optimization applications for electric power systems, specifically on economic dispatch and optimal power flow for systems that including wind energy resources.

After that, in my Ph.D study, I have studied Energy Markets and Energy Analytics extensively (i.e., with their economic and technical aspects). I also applied statistical and predictive analytics to mitigate the variability issues that imposed by variable renewable energy (VRE) resources. So, the research target is developing an approach to leverage the situational awareness tools for optimal trading and integration of these VRE resources.

I would like to apply for the opening position, and hope to get the opportunity to collaborate and work with the experts of this field.

You may refer to the attached package of my application, at your convenient time.

Should you have any questions, please let me know.

Thanks for your cooperation and attention.

Yours sincerely,

Mohamed Abuella