

# PhD/MSc Thesis Opportunity

Power Systems/Power-Electronics/Control Engineering

*Smart Microgrid Research Center and Department of Electrical Engineering*

*Najafabad Branch, Islamic Azad University*

I am seeking the self-motivated students interested in Microgrid control to join my research group. Our current research goals are to propose innovative control methods for improving the performance of converter-based islanded/grid-connected AC/DC microgrids. The main characteristics of this research group are “**hard work and team work.**”

A Microgrid is an electrical distribution network consisted of distributed generators, local loads, and energy storage systems that can operate in grid-connected or islanded modes. Different technologies are combined together, such as power converters, control, communications, optimization, and so on. This way the energy can be generated and stored near to the consumption points, improving the stability and reducing the losses produced by the large power lines.

Specifically, my research interests are:

- Microgrid protection;
- Control of microgrids and smart grids;
- Distributed generation;
- Power electronics interfaces for distributed generation;

If you are interested in this thesis position, please send me your CV, unofficial transcript (for MSc and/or PhD courses), and a statement of interest, **preferably all in English.**

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