MEng Design Project Announcement – 2018-19 AY

**Project title:**

*Quantum computing for computational optimization and applications*

**Brief Description of Design Project Goals:**

**Overview:**

*Developing quantum computing frameworks for solving large-scale optimization problems for research, engineering and energy applications, by leveraging IBM’s (industrial partner’s) quantum processors and facilities.*

**Specific MEng Contribution:**

*Using Qiskit toolkit (by IBM) to develop quantum computing frameworks for solving large-scale combinatorial optimization problems, and evaluate their performance.*

**ECE Field Advisor Name:** Fengqi You

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**Project Web Site:**

[www.peese.org](http://www.peese.org)


**Number of MEng Students Needed:**

Up to 4

**Required Skills:**

*Familiar with Python; knowledge about Qiskit would be strongly preferred.*

**Estimated Project Time Frame:**

2018-19 Academic Year, Two (2) Semesters