

IonQ & Q Center (SKKU) Partnership Kickoff

19 January 2021

On Zoom: <https://us02web.zoom.us/j/8602915958>
09:30–12:30 KST

IonQ is pleased to announce our partnership with Q Center, which will allow students and research scientists to use IonQ trapped ion systems for research and teaching.

Please join us for our inaugural event to learn more about our technology and meet two of our key scientists.



Introduction To Trapped Ion Quantum Computing **09:30-10:30 AM KST (talk in English; Q&A in Korean)**

Dr. Jungsang Kim

Co-Founder, CTO, and Board Member, IonQ

Professor of Physics & Engineering, Duke University

This presentation will outline the technological and economic impacts of full-scale quantum computation and the recent technical developments that will help transform trapped-ion quantum computing from scientific research to a commercially viable product.



Introduction To Qiskit **10:30-11:30 AM KST (in Korean)**

Soyoung Shin

IBM Qiskit Advocate, Phd Candidate SNU

This tutorial will introduce how to install Qiskit on your local computer by using Anaconda and how to use Qiskit in a Jupyter notebook in a cloud environment.



Teaching Lab: Getting Started With Quantum Computers **11:30-12:30 PM KST (in English)**

Dr. Sonika Johri

Senior Applications Scientist, IonQ

In this session, Dr. Johri will give an overview of basic quantum programs that use core concepts such as superposition, entanglement and measurement, including *Hello Many Worlds*—a program that generates “Bell states” and “cat states”—and the Deutsch-Josza algorithm. The group will use Qiskit and Jupyter to run these algorithms on IonQ hardware.

