Topic 2: Staffing and workforce considerations for a quantum computing testbed

In this breakout session, we will discuss staffing concerns for a quantum testbed. We will also discuss possible roles for a quantum testbed in developing a workforce to meet future DOE needs in quantum information science. To facilitate discussions, we will flesh out answers to a set of questions.

1. What types of scientific and technical expertise will be required during the first year of testbed deployment and operation? How does this depend on the model chosen for testbed implementation?
2. How will the initial staffing needs evolve over time as qubit technologies mature and commercial devices become available?
3. What staffing models from other facilities or testbeds could be adapted for a quantum testbed and what are their advantages and disadvantages?
4. How could one utilize the testbed for workforce development?
5. How could one design a successful mode of operation that both produces science and well-trained scientists who would then continue R&D in the quantum computing arena?