

# Standard Pilot Project

# Standard Project Template

2 weeks

Use Case  
Review and  
Classical  
Baseline  
Definition

Data

4 weeks

Quantum  
Mapping

Model

4-18 weeks

Execution  
and Analysis

Experiments

2 weeks

Presentation  
and  
Deliverables

Reports

# Standard Project

- Objectives:
  - Knowledge transfer and skill-building
  - Model a use case onto a quantum computing algorithm
  - Determine hardware requirements for the use case (i.e., “how many qubits before quantum computers can offer an economic advantage on that use case”)
  - Understand how different algorithms and hardware work for that use case
- Deliverables:
  - Quantum-ready models for the specific use case
  - Execution reports for different problem instances

# Advanced Project

# Advanced Project Template

2 weeks

Problem  
Structure  
and  
Classical  
Baseline  
Definition

Data

4 weeks

Quantum  
Mapping

Model

4-18 weeks

Algorithm  
Definition

Algorithm

4 weeks

Execution  
and  
Analysis

Experiments

4 weeks

Report

Reports

# Advanced Project

- Objectives:
  - Define a new quantum computing algorithm that takes advantage of the specific problem structure
  - Capture new Intellectual Property (IP) and/or Patents
- Deliverables:
  - Technical report that can be readily converted to a paper for publication or provide basis for patent application