



Thank you for your interest in attending a *Quantum for All* workshop. Please read the requirements and expectations below and then fill out the application form. By completing the application you are agreeing to fulfill the requirements and acknowledging that the information you provide is accurate to the best of your knowledge.

These workshops are components of a NSF grant, which includes a research study titled, "Quantum for All Students". The study includes providing content and support for teachers to develop a sense of how Quantum Information Science (QIS) and technology will affect their students. You can choose to participate in this research study if you are at least 18 years old and are affiliated with K-16 education as a teacher, facilitator, administrator, or supervisor. Your decision about whether to participate is entirely up to you. If you decide not to be in the study, there won't be any punishment or penalty; whatever your choice, there will be no impact on any benefits or services that you would normally receive. You can still participate in the sessions if you don't participate in the research. While absolute confidentiality cannot be guaranteed, the research team will make every effort to protect the confidentiality of your records as described here and to the extent permitted by law.

Expectations and Application for Workshop Attendees

Workshop participants will receive equipment and resources to support implementation of lessons in the classroom. In addition, there will be a stipend to attend the 2022 summer workshops and opportunities to earn additional stipends for presenting at student camps or teacher workshops.

Workshop Participant Requirements

- 1) Currently a high school physics, chemistry, or STEM classroom educator willing to implement some of the content learned at workshops in their own classroom over the next 2 years (2021-22 and 2022-23)
- 2) Attend and participate in at least 7 of the 8 online sessions offered during the week of July 20-23, 2021. Sessions will be 2 hours in the morning and 2 hours in the afternoon. Most equipment relevant to the workshop will be provided. Since space is limited, a registration fee of \$50 is required to cover equipment and shipping costs and to ensure full commitment to the 2021 workshop. It is suggested schools assist in this registration fee. Graduate credit will be available for an additional fee if desired for those completing all 8 sessions.
- 3) Comfortable presenting to peer adults, co-workers, and students. Note: Summer 2021 will be virtual workshop sessions/lessons. Summer 2022 teacher workshops and 2023 student camps will be face-to-face.
- 4) Provide a letter of support from the school, district, or employer indicating permission to implement curriculum and use the equipment being distributed. This is important to the overall objective of the project since the focus is to engage students in learning about quantum information science.

Workshop Participant Expectations

- 1) Support the project for the duration of the grant (through 2023) by assisting in presentation of sessions, modules, lessons, or tutorials at student camps.
- 2) Utilize *Quantum for All* resources in your classroom and provide feedback regarding student engagement, understanding, and interest.
- 3) Protect the integrity and copyrights of all resources
- 4) Due to funding limitations, priority will be given to applicants in close proximity to the 4 main workshop sites (Provo UT, Central and South Texas, Pittsburgh PA). Attendees are expected to pay for travel expenses, however, districts hosting student camps may be willing support travel for this professional development. Participants completing 2021 and 2022 are eligible to host a student camp within their district in the summer of 2023.
- 5) As part of the project, educators attending workshops in 2021 and 2022 are expected to assist in the student camps and be willing to present some of the lessons. In most cases, there will be a peer assisting you during the presentations to alleviate concerns and instill confidence. Stipends and equipment are allocated for participation in the summer 2022 workshops and assistance with the student camps in 2022 and 2023.

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