**BTE Quantum Student Ambassador Grant Application**

**Title:** Quantum Computing Education Project

**Applicant Name:** John Doe

**School Name:** Quantum High School

**Grade:** 11

**Project Overview:**

This project aims to introduce high school students to the basics of quantum computing through interactive lessons and hands-on activities, preparing them for the future of technology.

**Activity Details:**

The program will consist of 8 weekly sessions, where students will learn about quantum bits, superposition, and quantum algorithms. Each session will involve theoretical lessons followed by practical applications using quantum simulators.

**Timeline:**

Start Date: January 10, 2025

Activity 1:

Activity 2:

Activity 3:

Activity 4:

Activity 5:

Activity 6:

End Date: March 10, 2025

**Budget:**

- Quantum simulator software license: $200

- Educational materials: $150

- Guest speaker honorarium: $100

- **Total Budget:** $450

**Evaluation Plan:**

Please write a step-by-step evaluation plan through which you will complete your activities:

1. **Pre-program Survey:** At the start of the program, students will complete a survey to assess their initial understanding and interest in quantum computing.
2. **Session Feedback:** After each session, students will be asked to provide feedback on the clarity of the concepts covered, the engagement level of the activities, and any areas of confusion. This feedback will help instructors adjust the content and teaching style as needed.
3. **Quizzes:** Short quizzes will be administered at the end of each session to assess the immediate retention of key concepts such as quantum bits, superposition, and quantum algorithms.
4. **Final Assessment:** A comprehensive assessment at the end of the program will evaluate the students’ understanding of quantum computing and their ability to apply the concepts learned in practical scenarios.
5. **Post-program Survey:** A final survey will measure how the students' perceptions and interest in quantum computing have evolved throughout the course.

The collected data will be analysed to refine future iterations of the project and ensure continuous improvement in delivering the most effective educational experience.

**Conclusion:**

In a rapidly evolving technological landscape, understanding quantum computing is becoming increasingly important. This project will not only provide students with a solid introduction to the principles of quantum computing, but it will also cultivate critical thinking and problem-solving skills that are essential for tackling complex challenges in the future.

By the end of the program, students will be better equipped to pursue further education or career opportunities in the field of quantum computing. The knowledge and skills they acquire will position them to be leaders in the next wave of technological innovation, contributing to advancements that may shape the future of science and technology.