***Why do you want to study your chosen major specifically at Georgia Tech? (300 words)***

After the oil price plunge in 2016, I revisited my childhood home, Brunei, and witnessed the once vibrant orange donkey pump now rusty and stagnant. The downfall of petroleum had impacted a country's social setting, and at this point, I knew that it was time for the rise of a new form of energy: sustainable energy. Pursuing electrical engineering at Georgia Tech (GT) would enable me to be at the forefront of our fossil-fuel-driven world’s transformation to a more sustainable energy reliance.

My drive to find a feasible form of renewable penetration to the grid led me to research the benefits of smart grid technology on the sustainability of the power grid, which I hope to continue pursuing at GT. In the process, I appreciated Dr Baratunde Cola’s research on developing an optical rectenna which, I believe, could have a significant impact on heat flow in the energy sector. By exploring the feasibility of potentially using this in the smart grid, I believe power grids could not only become more sustainable, but also more efficient and, thus, less costly. I hope to work with Dr Cola to further explore how nanoengineering can potentially be used in the grid at GTech’s unique NEST Lab.

I am also excited to take the global engineering leadership program, particularly the *Smart and Susta*inable *Cities* course. I hope to explore the constraints of implementing the ‘smart grid’ in the context of city infrastructure through part II of the course.

Studying at the urban giant of Atlanta would undoubtedly enable me to conceptualize these ideas to potentially align with Atlanta’s ambitious plan to use 100% green energy by 2035, a remarkable thing to be a part of. Ultimately, our shared drive to sustainability is why I aspire to study at GTech.

Hi Rachinta,

Great job in editing the prompt! It is certainly getting more specific to GTech. I have added a few comments to help make it even stronger.

All the best! ☺