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Kruger Inc.  
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Dear Kruger Biomaterials Group,

I am a sophomore at Caltech majoring in material science and am interested in a research internship opportunity for the summer of 2021. I would love to learn more about your development of FiloCell and its versatile applications. Cellulose is amazing, right? This past summer, I worked on characterizing the mechanical properties of plants cells, whose walls chiefly contain cellulose. For the upcoming summer, I would like to see how interning in a company differs from academic research while continuing to pursue biomaterials work.

My research experiences span disciplines of molecular biology, chemistry, and biomechanics, while my course foundation is rigorously based in physics and engineering. Ultimately, I want to work on sustainability efforts, and I see how there are benefits to making biomass fillers that can reduce our consumption of fossil-fuel based plastics and composites. The whole life cycle of materials is important, and I am amazed how your method can extract cellulose from wood without lignin remnants.

Outside of school, I have learned about teamwork and responsibility while designing robots (FTC) and formula race cars (FSAE) throughout high school and college. I believe my interdisciplinary background in conjunction with my ability to collaborate will aid in my efforts to become a scientist / engineer.

I would like to expand my material science toolbox next summer, and I hope to aid in the design, manufacture, and/or testing of your work. I am curious about the research experience at Kruger and welcome the potential opportunity to intern there. I would love to hear more projects your team plans to pursue in the future. Thank you for your time and consideration.

Best Regards,  
Robin McDonald