Dear Hiring Manager,

I recently reviewed your posting for a SeniorMechanical Engineer position. I am very interested in learning more about this position.

My PhD thesis work has focused on investigating thermal transport in a wide-range of materials, from their bulk properties to nanoscale phenomena. I am trained in all aspects of thermal transport, including convection, conduction, and radiation, particularly at the nanoscale.

While my PhD thesis work has been primarily numerical in nature, I have worked closely with Jonathan Malen’s complimentary experimental group at Carnegie Mellon. The experimental measurements by his group inspired one of the research projects I am currently in the process of publishing. Throughout the course of my PhD, I have worked hard to follow recent experimental results closely, as evidenced by my most recent project.

My MS thesis focused on fluid flow and turbulence, as did my coursework, where I was trained in turbulent, viscous, and microscale fluid flow. In addition to my MS thesis work, I have extensive experimental experience from my internship at Precision Therapeutics, which is outlined in my resume. From my undergraduate research and internship I have experience using solid modeling software such as AutoDesk, SolidWorks, and Pro/E.

I look forward to speaking with you about this opportunity.

Thank you,

Jason Larkin