Nathan Ryan

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# Dear Hiring Manager,

I am writing to express my interest in the Technology-to-Market Advisor role for Nuclear Fission Energy, Fuel Cycle, and Waste Management at ARPA-E. As a nuclear engineer with a strong background in energy policy, nuclear fuel cycle research, and clean energy advocacy, I am passionate about advancing nuclear technologies across the fuel cycle and ensuring their successful commercialization. My work has consistently focused on the intersection of technical excellence, strategic problem-solving, and effective communication to drive meaningful policy change and accelerate the deployment of clean energy solutions.

Through my research at the University of Illinois and my work with industry stakeholders, I have worked on various advanced reactors, fuel cycles, and behind the meter applications. Several years ago, I drove various modeling efforts in support of the Illinois Hydrogen Hub application. Additionally, my role as a graduate intern at Oak Ridge National Laboratory allowed me to integrate advanced reactor designs into nuclear fuel cycle models, contributing to the future of non-equilibrium reactor simulations.

Beyond research, I have demonstrated leadership in organizing and fundraising for large-scale events, exceeding our fundraising goals and doubling attendance in the following year. I have also played a key role in policy advocacy, from leading successful campaigns for Illinois clean energy legislation to representing nuclear science priorities in national forums as part of the Nuclear Engineering Student Delegation.

What excites me most about this opportunity is the chance to leverage my technical expertise and policy experience to help guide ARPA-E-funded projects toward successful commercialization. I am driven by the need for science-based, economically sound solutions to overcome barriers in clean energy deployment. By building strong partnerships and facilitating cross-industry collaboration, I am confident I can help move advanced nuclear technologies from the laboratory to the marketplace.

I am eager to contribute to ARPA-E’s mission and look forward to the opportunity to discuss how my skills and experiences align with your team’s needs.

Best regards,

Nathan Ryan