Nathan Ryan

708-567-0002 | nathanryan.nuc@gmail.com | Urbana, IL, USA |https://nsryan.github.io/

# Dear Hiring Manager,

I am writing to express my interest in the Energy Economist position within the Decision and Infrastructure Sciences Division at Argonne National Laboratory. With a strong technical background in nuclear engineering, energy policy, and data-driven analysis, I am excited about the opportunity to contribute to Argonne’s efforts in advancing the resilience and sustainability of energy supply chains, particularly those critical to clean energy technologies and U.S. decarbonization goals. My experience in energy systems modeling, analysis, and technical skills in coding and data management positions me to provide valuable insights into the challenges and opportunities facing the energy sector.

Throughout my educational career, I have applied my technical knowledge to solve complex problems related to energy systems. At the University of Illinois and Oak Ridge National Laboratory, I led projects that involved the modeling of advanced nuclear reactors and fuel cycles, integrating both technical and economic considerations to inform decision-making. My expertise in coding languages such as Python, C++, and bash, coupled with proficiency in SQL and SQLite databases, allowed me to efficiently analyze large datasets and develop models that explored different energy pathways and their impacts.

In the Energy Economist role at Argonne, I am particularly excited to apply these technical skills to contribute to the development of tools and models that assess critical material supply chains and the broader impacts of energy sector decarbonization. I am confident that my ability to develop and synthesize complex models and analyze data using modern computational techniques will be an asset to your team as we work toward strengthening energy supply chains and achieving decarbonization goals.

I am confident that my technical skills, research experience, and interdisciplinary approach to energy studies make me well-suited to contribute to Argonne's mission. I look forward to the opportunity to discuss how my experience and capabilities can support the important work of your division. Thank you for your consideration. I am excited about the potential to contribute to Argonne’s efforts and to further develop my skills in this dynamic field.

Best regards,

Nathan Ryan