

# Dean Krueger

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## Education

**University of Wisconsin-Madison**  
*PhD - Nuclear Engineering (In Progress)*  
Economic Modeling of the Nuclear Supply Chain

**Madison, WI**  
2023–Present

**University of Colorado at Boulder**  
*BA - Physics*

**Boulder, CO**  
2016–2020

## Skills

**Technical Skills:** Supply Chain Modeling, Core Design (OpenMC, SCALE, ANC), Technical Writing

**Programming Languages:** C++, Python, Julia, HTML, CSS

**Soft Skills:** Leadership, Problem-solving, Customer Interface, Sales and Support

## Projects

**Tricycle:** A module for the nuclear fission supply chain modeling code CYCLUS which aids in the modeling of fusion systems.

**CYCLUS Front-End Realism:** A modification to CYCLUS to enhance the realism of its supply chain front-end modeling.

## Work Experience

**Westinghouse Electric Company**

**Cranberry Township, PA**

*Core Engineering Intern*

2024

Designed loading patterns and performed preliminary safety analysis for nuclear design projects in the Core Engineering department.

**Vescent Photonics**

**Golden, CO**

*Field Applications Engineer*

2021–2023

Advised customers on design and implementation of atom trapping, saturated absorption spectroscopy, and quantum computing experiments to accelerate their ability to collect valuable data.