

BACHELORS NUCLEAR ENG & RADIOLOGICAL SCI

TOP INDUSTRIES

AY 2021 - 2023

1. Utilities
2. Research & National Laboratory
3. Government/Military
4. Technology Hardware & Equipment
5. Consulting

SAMPLE JOB TITLES

AY 2020 - 2023

- Fuel Rod Design Engineer
- Neutronics Analyst
- Nuclear Engineer
- Nuclear Software Engineer
- Physics Quality Coordinator
- Plant Integration Engineer
- Postbac Researcher
- Reactor Engineer
- Reliability Engineer

TOP HIRING COMPANIES

AY 2018 - 2023



SAMPLE HIRING COMPANIES

AY 2018 - 2023

- Bechtel
- BlackEdge Capital
- City of Escanaba, MI
- Delta Air Lines
- DTE Energy
- Electric Power Research Institute - EPRI
- Entergy
- Epic
- Exelon
- EY
- General Electric
- Huntington Ingalls
- Kairos Power
- KAIST
- Lawrence Livermore National Lab
- MAC Valves
- Michigan Medicine
- Naval Nuclear Lab
- NAVSEA
- Niowave
- QQ Max Services
- Shanghai Nuclear Engineering Research and Design Institute
- Stan A. Huber Consultants
- Tennessee Valley Authority
- Tetra Tech
- U.S. Air Force
- University of Michigan
- Verus Research
- Wade Trim Group
- Walter Reed Army Institute of Research
- Westinghouse Electric
- X-energy

FULL TIME STARTING ANNUAL SALARY

AY 2021 - 2023

Average: \$76,924

Min	Median	Max
\$69,620	\$73,000	\$95,000

INTERN HOURLY SALARY

AY 2023

Average: \$24.02

Min	Median	Max
\$16	\$23.56	\$35

AY = Academic Year
Data is subject to availability. At least 4 data points are required to publish salary data.
The most recent hiring data is published above.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

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SAMPLE ELEVATOR PITCH

Hi, I'm [NAME] and I'm a senior studying Nuclear Engineering and Radiological Sciences. I am seeking an full-time position as a health physics engineer.

Last summer I interned at Los Alamos National Laboratory where I analyzed the radiation impact of nuclear power plants on residents in nearby cities. Additionally, I am part of the Society of Women Engineers where I host an engineering summer camp for high school students exploring engineering.

I am passionate about finding solutions to technical challenges and leading others, which has equipped me with the necessary skills to excel in a position at your company. Could you tell me more about the role?

SAMPLE IMPACT STATEMENT

Before - Decreased emissions from a reactor power plant

After - Developed a new carbon-sequestration program that stores and refines carbon in a tank which can be used for other tasks reducing carbon emissions by 10%

KEY COURSES

NERS 315 - Nuclear Instrumentation Laboratory; introduction to the devices and techniques most common in nuclear measurements

NERS 320 - Applied Mathematics for Engineering Physics; mathematical applications of fluid mechanics, heat transfer, electromagnetism, quantum mechanics, medical physics, radiological engineering, nuclear reactor physics, radiation transport, and reliability analysis.

NERS 441 - Nuclear Reactor Theory I; introduction to the theory of nuclear fission reactors.

NERS 491/492 - Senior Design I/II; student teams complete a year-long senior design project

KEY SKILLS

- Computational Modeling & Simulation
- Scientific Programming (MATLAB/Python)
- Nuclear Safety Analysis
- Mathematical & Statistical Modeling
- Design and Data Analysis

SAMPLE EXTRACURRICULARS

American Nuclear Society

Institute of Nuclear Materials Management

Women in Nuclear (WIN)

Alpha Nu Sigma Society

Health Physics Society (HPS)

