

BACHELORS NUCLEAR ENG & RADIOLOGICAL SCI

TOP INDUSTRIES 2020-2022

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

SAMPLE JOB TITLES 2016-2021

- Client Systems Engr.
- Front End Associate
- Health Physics Consultant
- Nuclear Design Engineer
- Nuclear Engineer
- Nuclear Operator
- Nuclear Software Engr.
- Physicist
- Plant Integration Engineer
- Reactor Engineer
- Rotational Engineer
- Test Operations Engr.

TOP HIRING COMPANIES 2018-2022



SAMPLE HIRING COMPANIES 2018-2022

- 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, School of Computing
- Los Alamos National Laboratory
- MAC Valves
- 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 ANNUAL SALARY 2016-2017

Average: \$72,175

Min	Median	Max
\$65,000	\$66,850	\$90,000

INTERN MONTHLY SALARY 2021-2022

Average: \$4,582

Min	Median	Max
\$3,640	\$4,322	\$6,630

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

SAMPLE EXTRACURRICULARS

American Nuclear Society

Institute of Nuclear Materials Management

Women in Nuclear (WIN)

Alpha Nu Sigma Society

Health Physics Society (HPS)

