

## Nuclear Engineers

17-2161.00



**Description:** Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal.

### Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

**Sample of Reported Job Titles:** Engineer, Nuclear Design Engineer, Nuclear Engineer

### Job Zone

**Title:** 4 - Considerable Preparation Needed

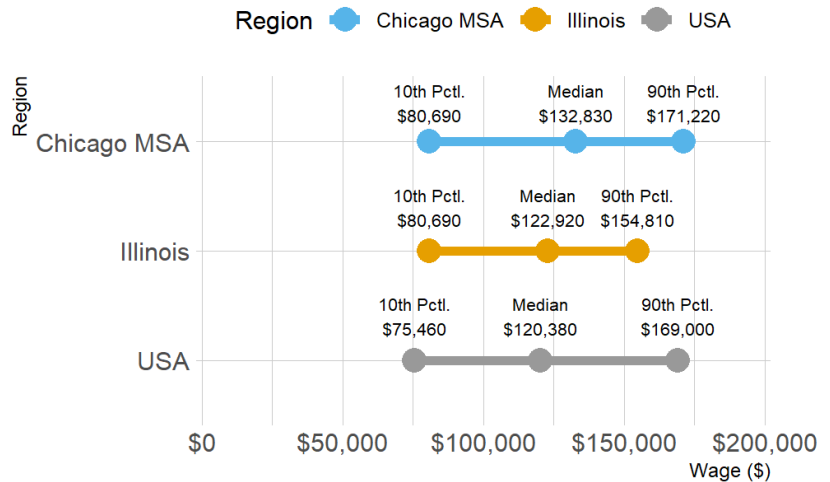
**Education:** Require a four-year bachelor's degree.

**Experience:** A considerable amount of work-related skill, knowledge, or experience is needed.

**Training:** Several years of work-related experience, on-the-job training, and/or vocational training needed.

**Hot Technologies:** C++, Computer aided design CAD software, Linux, Mathsoft Mathcad, Microsoft Access, Microsoft Office Suite, Oracle Java, Python, Salesforce software

Region	Employment	Location Quotient	Median Wage
Chicago MSA	110	0.28	\$132,830
Illinois	370	0.73	\$122,920
USA	12,670	—	\$120,380



### Top 5 Core Tasks According to Current Job Holders

**Importance**  
**Frequency (out of 100)**

Monitor nuclear facility operations to identify any design, construction, or operation practices that violate safety regulations and laws or could jeopardize safe operations.

Hourly or more

90

Initiate corrective actions or order plant shutdowns in emergency situations.

Yearly or less

90

Examine accidents to obtain data for use in design of preventive measures.

Yearly or less

84

Design or develop nuclear equipment, such as reactor cores, radiation shielding, or associated instrumentation or control mechanisms.

More than yearly

84

Direct operating or maintenance activities of nuclear power plants to ensure efficiency and conformity to safety standards.

Daily

83