

Physicists 19-2012.00



Description: Conduct research into physical phenomena, develop theories on the basis of observation and experiments, and devise methods to apply physical laws and theories.

Other Resources:

[ONET Link](#)
[MyNextMove Link](#)

Sample of Reported Job Titles: Biophysics Scientist, Health Physicist, Medical Physicist

Job Zone

Title: 5 - Extensive Preparation Needed

Education: Require graduate school.

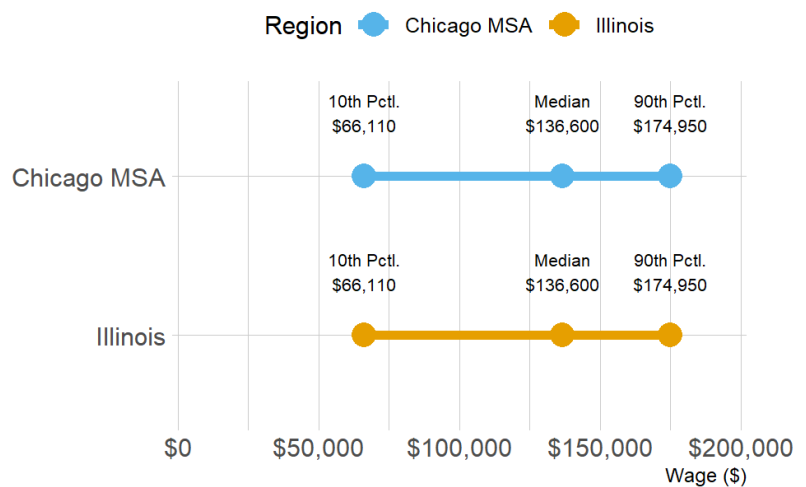
Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Core Certifications: Certified Health Physicist

Hot Technologies: Adobe Systems Adobe Photoshop, Ansible software, Autodesk AutoCAD, C++, Eclipse IDE, Extensible markup language XML, Git, JavaScript, Linux

Region	Employment	Location Quotient	Median Wage
Chicago MSA	–	–	\$136,600
Illinois	–	–	\$136,600



Top 5 Core Tasks According to Current Job Holders	Frequency	Importance (out of 100)
Perform complex calculations as part of the analysis and evaluation of data, using computers.	Daily	86
Analyze data from research conducted to detect and measure physical phenomena.	Daily	83
Describe and express observations and conclusions in mathematical terms.	More than monthly	81
Design computer simulations to model physical data so that it can be better understood.	More than monthly	80
Report experimental results by writing papers for scientific journals or by presenting information at scientific conferences.	More than yearly	79