Cole Miller

Career Research Part 2

Mrs. Viox

**Computer and Information Research Scientists**

The nature of work for a computer and information research scientist is to create new technology and computing device for advancements in technology. They work in multiple fields to solve many complex problems. The main work activities that they part take in is to solve problems for various people and to develop new technology. They work full time and sometimes have flexible work hours. Common work activates are to create new designs or creating the design. For example making a new language to program in or creating new hardware for computers. 26% of people in this career field work in a government position.

To be a Computer and Information research scientist you need a bachelor’s degree in a field involving computers example Computer Science or computer engineer. Then you will go on to get your Ph.D. which requires 4 to 5 years to obtain. You may have to take some biology classes depending on what you plan on specializing in. There is advancement, there is the opportunity to become a Computer and Information Systems Manager. It takes about 5 years of experience to become one though.

The job outlook is very good. It is predicted to grow 15% per year which is faster than average for all occupations. Technology continues to grow and that makes the need for computer scientists to grow as well. Now with businesses collecting online data the need for computer scientists continues to grow even more. Also the robotics field is starting to grow more and more as technology advances. With hackers and cyber-attacks becoming more popular computer scientists are used to come up with solutions to stop them. The median annual wage for a computer scientists in 2012 was $102,190. The lowest 10 percent earned less than $57,220, and the top 10 percent earned more than $151,900.

Mechanical engineer

Database Administrators

Computer hardware engineers

**Computer and Information Systems Managers**

Computer and Information Systems Managers tend to be high positions in companies for example Chief information officers (CIOs) or Chief technology officers (CTOs). In these positions the person is responsible for most of the technology that the business uses. They are usually focused on the “big picture”. Lower positions in a business are IT directors have control over all of the IT people. There is a job outlook of 15%.

Computer and information systems managers must have a bachelor’s degree in a computer- or information science–related field. A degree in one of these fields usually takes about four year to get the degree. People wanting to advance to higher positions need experience in a company to advance in rankings in the company.

**Software Developers**

**Computer Network Architects**

**Computer Programmers**