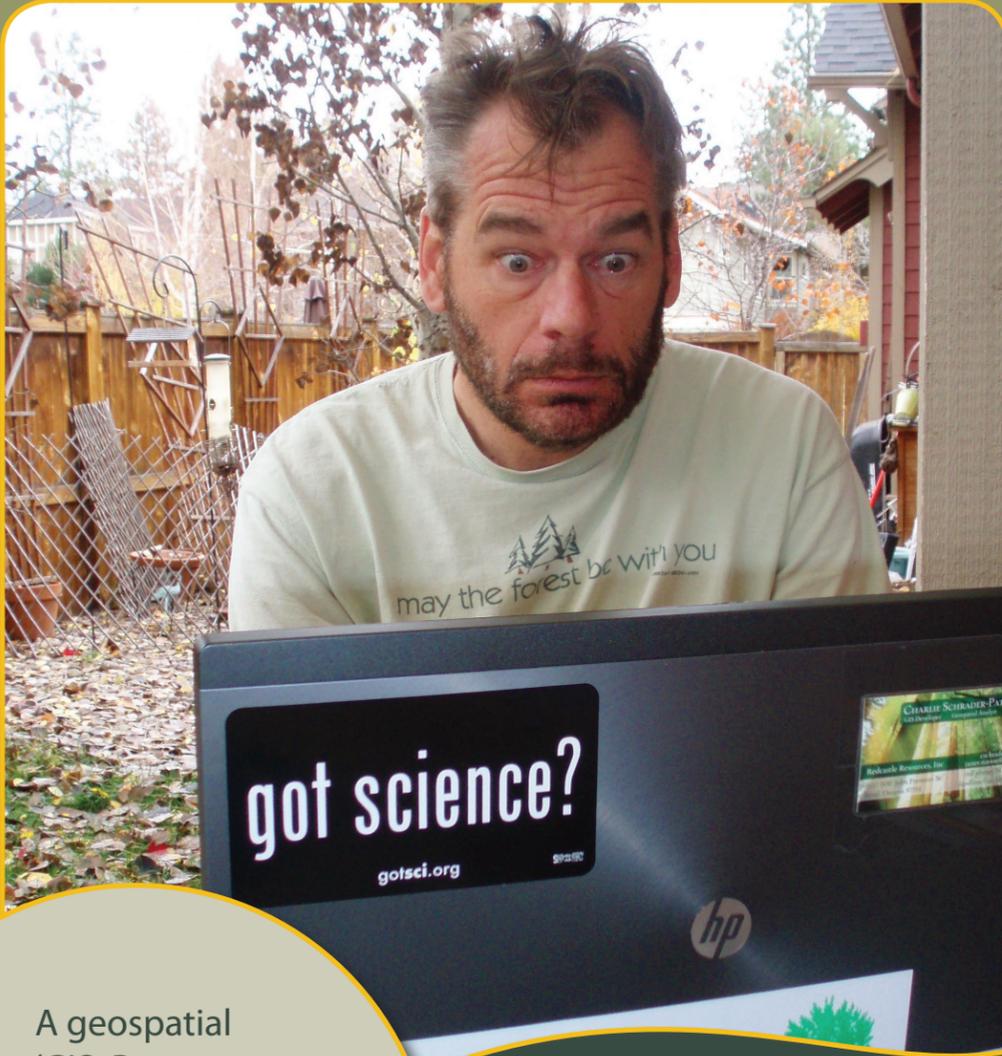




Meet the Scientist!



A geospatial (GIS, Remote Sensing) analyst uses computers to study digital map data and relate these maps to vegetation on the ground.

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Geospatial Analyst
M.S., University of Montana
USDA Forest Service scientist



<http://www.naturalinquirer.org>

<http://www.scienceinvestigator.org>

Important Scientist Characteristics

Skills that really help me do my job include creative problem solving, attention to detail, ability to use computers and software, and effective oral and written communication. Being an effective analyst is also about working with people—listening to their needs and working together on solutions.

Example of a simple research question I have tried to answer:

Can we use images from satellites to accurately map damage to forests from insects and disease? To do this, we compare older images to newer ones using a process called change detection. We also read about the research done by other scientists to find out what they have learned.

Technology or equipment used in research:

We use powerful computers to analyze data from satellites orbiting the Earth. We often write our own software to perform these analyses. Also, we use GPS devices to locate where we are on the ground and small aircraft to observe with our own eyes the things we see on the images.

Most Exciting Discovery

The organization I work for is focused on creating tools for forest managers to visualize threats to the forest from things like insects, disease, wildfire, and drought. We developed a web browser mapping system that is easy for forest managers to use, and it displays data from these threats so the managers can see where multiple threats occur.

When did you know you wanted to be a scientist?

When I was growing up in Oregon I did a lot of hiking in the mountains. I wondered why certain plants grow in some places and not others. In college I took an ecology class and I was hooked!