My NASA Data - STEM Career Connections

TECHNOLOGY: Geospatial Information Scientists and Technologists

Sphere(s)

- Atmosphere
- Biosphere
- Cryosphere
- Geosphere
- Hydrosphere

Phenomenon

- Changes in Land surface
- Changes in Migration Patterns of Biomes
- Changes in Snow and Ice Extent
- Changes in Sunlight (Daylight)
- Changing Air Temperatures
- Changing Albedo Values
- Changing in Clouds Fraction
- Creation of Urban Heat Islands
- Deforestation
- Drought
- Flood
- Forest Fires
- Heat Waves
- Hurricane Dynamics
- Increasing CO2 Concentrations
- Land Use Change
- Patterns of Erosion: Changing Landscapes
- Patterns of Seasonal Precipitation
- Soil Moisture
- Thunderstorms
- Watershed changes
- Wind

Related Links

- SCIENCE: Paleoclimatologist
- MATHEMATICS: Data Scientist
Work Description

Geospatial Information Scientists and Technologists research geospatial data or develop geospatial technologies. Geospatial data is data that has a geographic component associated with it, such as coordinates or an address, and geospatial technologies are the technologies used to collect and analyze geospatial data. These scientists and technologists prepare and analyze geospatial data, program computer software, and conduct research using geospatial analysis techniques such as Geographic Information Systems (GIS).

Salary Range

$50,000 - $75,000

NASA Connections

Job Title NASA Examples:

- Research Scientist
- Data visualizer
- Geographer
- Cartographer

NASA Career Links:

- NASA Careers [Link]
- NASA Internships & Fellowships Pathways [Link]
- NASA Student Volunteer Program [Link]
- Working for NASA [Link]

Related Fields

- Remote sensing
- Cartography