

---

# My NASA Data - STEM Career Connections

## TECHNOLOGY: LIDAR Remote Sensing



### Education

Remote sensing scientist requires a minimum of a bachelor's degree in geography, cartography, civil engineering, or related fields.

### Related Fields

- Geotechnical Lab Technician [Link](#)
- Environmental Monitor [Link](#)
- Architectural Historian [Link](#)

### Work Description

LIDAR Remote Sensing Technologists uses remote sensing strategies to analyze data to solve

---

problems in areas across the globe. They use LIDAR - Light Detection and Ranging - as a method of remote sensing to examine the surface of the Earth.

## **Why is this job Important?**

Lidar is an important tool used by scientists and researchers to be able to map images of the Earth collected from instruments fitted on aircraft and satellites. It is a method that measures the distance to a target by sending the pulsed laser light to the target and measuring the reflected pulses with a sensor. Differences in the return times and wavelengths of the laser are used to make digital maps of the target.

## **NASA Connections**

### **Job Title NASA Examples:**

- Geographic Information System (GIS) Scientist
- Geographers
- Geoscientists
- Operations Research
- GIS Technicians

---

### **NASA Career Links:**

- [NASA Careers](#)
- [NASA Internships & Fellowships Pathways](#)
- [NASA Student Volunteer Program](#)