

## **Career Benefits:**

- The scope of GIS technology extends across various industries and disciplines. It is utilised in a broad range of fields, including government, transportation, utilities, environmental management, and public health, among others.

## **Job Opportunities:**

- **GIS Developer:** GIS developers create and modify GIS tools, applications, programmes, and software. Careers in GIS are more in demand than ever. With skills in data visualization and spatial analysis, GIS professionals are qualified for roles in numerous fields.
- **Conservationist:** GIS facilitates environmental monitoring using satellite images. These images help track natural resources, soil, and habitats of different species. Organizations can use GIS to observe species distribution and allocate funds accordingly.
- **Law Enforcement:** Maps and spatial analysis have long supported police in understanding crime patterns for more effective resource deployment. Today, location-based technology offers even more capabilities. Law enforcement agencies can use Esri's GIS-powered maps and apps for executive decision-making, field operations management, real-time situational awareness, and community engagement.
- **Cartographer:** As a cartographer, you can design maps and charts for various purposes, including tourist maps, educational materials, and police references.
- **Health Geographer:** GIS enables the visualisation and monitoring of infectious diseases. It also records and displays community health care needs and available resources.
- **Remote Sensing Analyst:** Professionals in remote sensing and GIS can start careers as project managers, junior system executives, system analysts, GIS engineers, image analysts, or GIS programmers.
- **Climate Scientist:** GIS can map temperature and precipitation patterns over time, helping scientists visualise changes in these variables. This can identify areas particularly vulnerable to climate change impacts, such as increased temperatures or altered rainfall patterns.

- **City/Urban Planner:** GIS helps urban planners balance development and manufacturing. As urban areas grow, planners can use GIS to track assets, assess equity, and evaluate development needs.