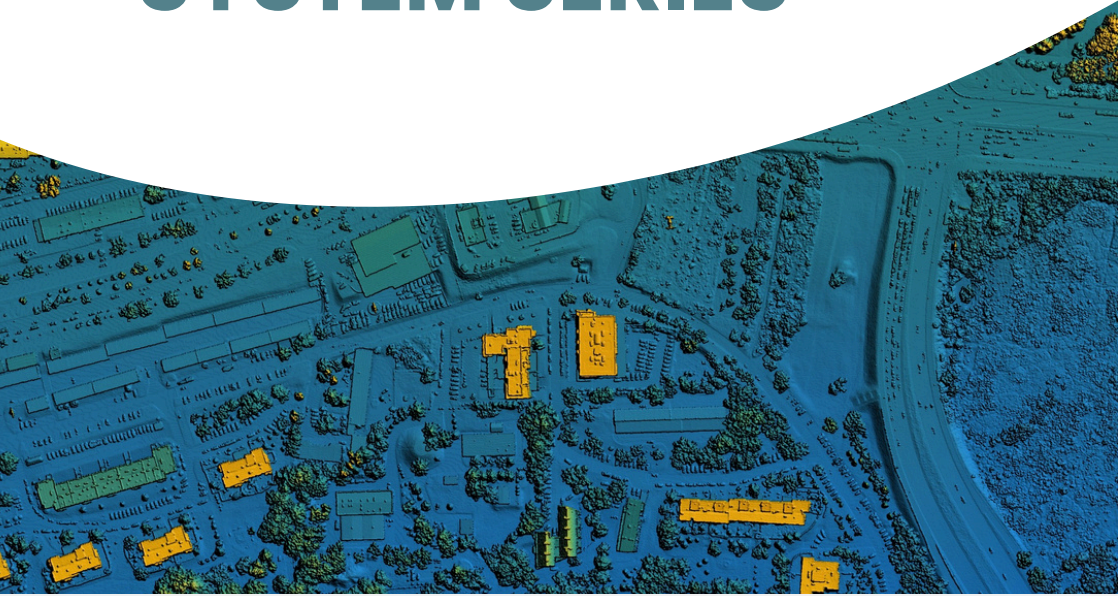


ExploreTerra

Unearth Your Energy Potential

Training

GEOGRAPHICAL INFORMATION SYSTEM SERIES



The course will equip them with a versatile skill set, allowing them to apply GIS techniques in various scenarios and effectively communicate geospatial information.

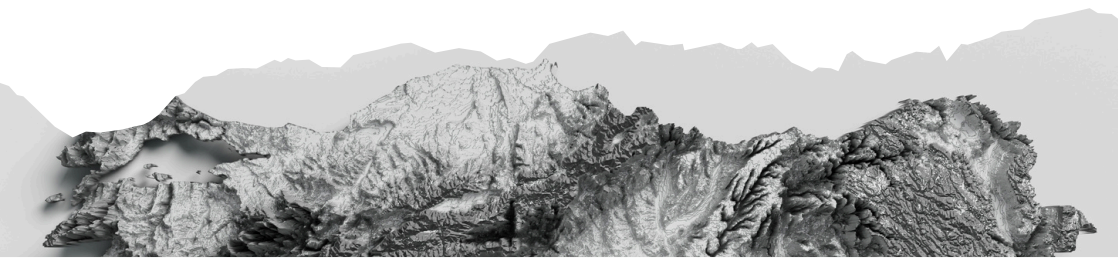
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WELCOME!

The GIS course for geoscientists offers training at three levels: Basic, Intermediate, and Advanced, with the aim of providing participants with a comprehensive understanding of Geographic Information Systems. By the end of the course, participants will have the necessary skills to effectively utilize GIS technology in their research, analysis, and decision-making processes.

The course will equip them with a versatile skill set, allowing them to apply GIS techniques in various scenarios and effectively communicate geospatial information.



SCOPE



- **Duration:** 5 weeks
- **Price per student:**
Relative to instruction level:
\$1600 Basic, \$2300 Intermediate
- Advance sessions are personalized to groups or individuals for map assessment and specific skill development
- **Target Audience:** Geoscientists, environmentalists, and individuals interested in GIS
- **Focus areas:** Mapping, skills development, cartography
- **Format:** This course will blend theoretical discussions with practical, real-world examples of GIS. Basic software knowledge is required for intermediate or advanced level.
- **Type or training:** Remote (Zoom) or in person.
- **Maximum number of students:** 15
- **Languages:** Available in Spanish
- **Requirements:** ArcGIS, QGIS, Python.

CONTENT



Basic Level (16 hours)

Week 1: Introduction to GIS and Spatial Data

- Session 1: Overview of GIS and its Applications in Geoscience
- Session 2: Basics of Spatial Data and Coordinate Systems

Week 2: GIS Software Basics

- Session 3: Introduction to GIS Software (e.g., ArcGIS, QGIS)
- Session 4: Data Input, Visualization, and Basic Editing

Week 3: Spatial Analysis Fundamentals

- Session 5: Basic Spatial Analysis Techniques
- Session 6: Modelling and Data Quality

Week 4: Data Sharing and Project Presentation

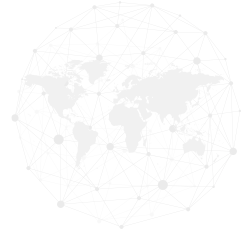
- Session 7: Creating Simple Maps and Cartography Basics
- Session 8: Data Sharing and Collaboration in GIS

Intermediate Level (25-27 hours)

Week 1: Review and Advanced Data Handling

- Session 1: Recap of Basic GIS Concepts
- Session 2: Advanced Data Input and Database Management

CONTENT



Week 2: Advanced Spatial Analysis

- Session 3: Advanced Spatial Analysis Techniques
- Session 4: Geoprocessing

Week 3: Remote Sensing Integration

- Session 5: Geo-coding
- Session 6: Geo-referencing

Week 4: 3D GIS and Terrain Analysis

- Session 7: Terrain Analysis and Visualization
- Session 8: Digital Elevation Models

Week 5: Web GIS and Mobile GIS

- Session 9: Basics of Web GIS
- Session 10: Introduction to Remote Sensing

Week 6: Project

- Session 11: Integrating Remote Sensing Data with GIS
- Session 12: Final Project: Create and Present a Geospatial Project

CONTENT



Advanced Level (To be determined)

The advanced level will be tailored based on the specific needs and interests of the participants. Costs are relative to the session or project.

Potential topics:

- Advanced Spatial Statistics and Geostatistics
- GIS Programming and Automation (e.g., Python scripting)
- Spatial Decision Support Systems (SDSS)
- Big Data and GIS
- Advanced Remote Sensing Applications
- Customizing GIS Tools and Applications

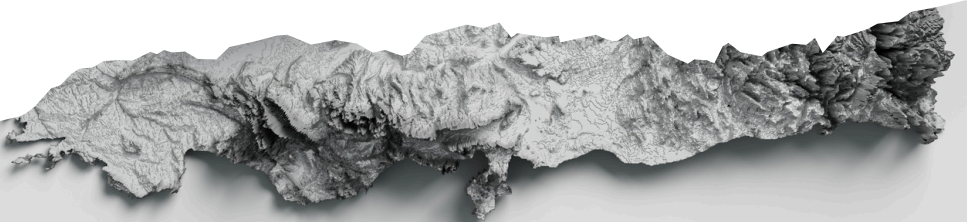
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ABOUT COMPANY

ExploreTerra's vision is to contribute to the geoscience consultancy and training landscape. Our core purpose is to establish a dynamic platform that creates connections between available talent and opportunities or needs within the energy industry.

We are dedicated to enriching the energy sector through specialized services and empowering geoscientists with technical training, tailored technology transfer, and the adoption of integrated, multidisciplinary best practices.



YOUR INSTRUCTORS



Ana Vasquez, PhD

Chief Scientific Officer

Ana C. PhD, is a marine and policy scientist with over 15 years' experience in climate change mitigation, resilience and environmental impact assessments. Ana is member of several scientific associations, including ASLO, WOS, OceanExpert, GeoLatinas, EAG, DOSI, AGU.



Pablo Carazo

Environmental Engineer and GIS expert

Professional in Natural Resources Management with 8 years of experience in climate research projects and GIS systems. Broad experience implementing environmental assessment and management systems, including educational programs for proper water resource management, energy efficiency, and biodiversity protection.

GET IN TOUCH

Our training programs, designed by seasoned geoscientists, are tailored to meet contemporary industry needs.

We prioritize technical and core skill enhancement and the incorporation of advanced technologies, equipping professionals for the dynamic field of geoscience.

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