

We train on *your* schedule.

Visible Edge Institute has been providing classroom training for over 30 years and remote training for over a decade. Our flexible, comprehensive training programs are designed to accommodate individuals of ***all*** skill levels.

As a Licensed Post-Secondary Educational Institution, our training provides students with hands-on experience, in-depth skills in leading applications, and industry-recognized certifications. You'll get the opportunity to earn industry-recognized certifications in all of our programs.

Train remotely or in-center, while maintaining on-demand access to our live instructors. Students can also access training lessons 24/7 for self-study.

Remote Attendance: Remotely tap into our training center to work directly with live instructors on-demand via phone, video call, screen sharing, email, chat or text.

In-Center Attendance: Choose to attend training in our physical training center on your schedule, not ours. Our renovated in-center learning environment utilizes state of the art equipment and modern learning techniques including one-on-one live instructor interactions, digital materials, labs, and project work.



You may qualify to have your entire program paid for, 100%, with no out-of-pocket costs to you. All programs are federally approved by WIOA, Section 30, Trade Adjustment Act, Vocational Rehab, and more.

We are a Veteran Friendly Institution.



GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). For more information about education benefits offered by the VA, visit the official U.S. government website at <http://www.benefits.va.gov/gibill>.

GLOBAL HEADQUARTERS

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Ve-I reserves the right to change fees, courses, topics, policies, programs, services and personnel as required. "On-Demand" refers to instructor and facility access during our normal business hours, which are Monday – Friday from 8:00AM to 5:00PM except Federal Holidays and shutdowns. Instructor support is limited to purchased training materials and labs. Remote setup assistance is included.

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GIS & DIGITAL CARTOGRAPHY TECHNOLOGIES

Gain an overview of GIS fundamentals, as well as the various types and formats of cartographic data, data collection, data storage, sensors, and more.

VISIBLE EDGE

DISCOVER ALL ASPECTS OF THE GIS INDUSTRY - ABOVE AND BEYOND SIMPLE MAP DRAFTING

Cartography is the art of creating maps with interpreted data. A cartographer, or mapmaker “digitally” illustrates the visualization of data with some spatial dimension. GIS is a model of such data in a computer environment. Using GIS, we can simplify, focus, or generalize information in maps with multimedia and annotation.

With the massive investments in infrastructure funding, those knowledgeable in GIS technologies will be poised to benefit from this economic opportunity. Maps and digitized cartographic products are also in high-demand throughout a multiplicity of industries.

Our GIS and Digital Cartography Program focuses on teaching the required discipline and applications used by people in this field.

Throughout the program, you'll learn GIS fundamentals as well as information about various types and formats of cartographic data, how it is collected, stored, processed, and more.

Continuing on, you'll engage in hands-on data reduction and map drafting exercises using both open-source and licensed software such as ENVI, QGIS, and the ESRI ArcGIS family of products.

Choose to dive even deeper into the industry through your elective course - acquiring knowledge in statistics, Google Earth Engine (GEE), GIS Database Management, Python, GeoPandas, ArcPy, PyQGIS, API macros, NumPy, SciPy, spatial analysis, GIS Instrumentation, GIS in the Cloud, and more.

HIGHLIGHTS...



Graded courses will introduce you to ancillary applications that facilitate map creation - such as input parsers, database management functions, file format handlers, scripting languages, and graphics routines to output beautiful publish-ready 2D and 3D displays.



Choose to learn more about vegetation analysis, flood plain delineation, smart agriculture, crop assessment, satellite image processing, ground surveying, mapping applications for mobile phones, prediction maps, aerial photogrammetry, machine learning in GIS, object-oriented GIS programming in Python, drone image analysis, and countless other topics.

YOU'LL HAVE THE OPPORTUNITY TO EARN INDUSTRY-RECOGNIZED CERTIFICATIONS, INCLUDING BUT NOT LIMITED TO:



Geographic Information Systems (GIS)



Autodesk Certified Professional (ACP) - Civil 3D for Infrastructure Design



Autodesk Certified Professional (ACP) - AutoCAD Drafting & Design, Revit Structural, Revit for Architectural



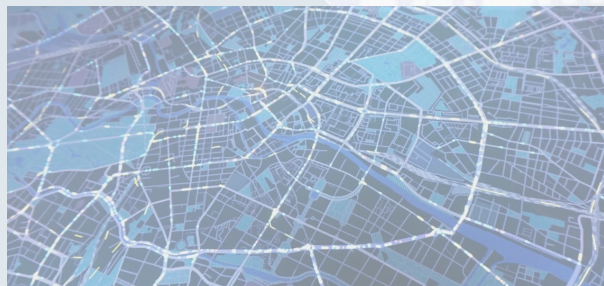
Data Analytics Professional Certification



Tableau Desktop Certified Associate



Microsoft Excel Expert Certification



CORE CURRICULUM FOR THIS PROGRAM INCLUDES...

- Introduction to GIS
- ArcGIS Desktop for Spatial Analysis
- ArcPy for Python Developers using ArcGIS Pro
- Basics of Python & ArcPy, Python library of ESRI ArcGIS
- Google Earth Engine
- Google Earth Engine for Machine Learning & Change Detection
- Complete Remote Sensing Image Analysis with ENVI
- Core Spatial Data Analysis: Introductory GIS w/R and QGIS
- Geospatial Data Science with Python: GeoPandas
- GIS & Remote Sensing in QGIS

ADDITIONAL ELECTIVE TOPICS INCLUDE...

- Spatial Databases with PostGIS and QGIS
- Web Programming for GIS Applications
- Making Maps & Map Series with ArcGIS Pro Layouts
- QGIS & Google Earth Engine for Environmental Apps
- Statistical Problem Solving in Geography
- Survey of Python for GIS Applications
- Total Station, Surveying, & Mapping
- Land Surveying with Drones
- Geology for Designers & Engineers
- Geomatics & Surveying Principles
- Geotechnical Engineering
- Remote Sensing of the Environment & with Google Earth
- Spatial Metrics w/Python, Master Math Coding w/Python
- Mathematica Programming
- Analysis and Applications using Mathematica
- Calculus & Differential Equations
- Probability & Statistics Essentials
- Basics of Civil Design & Engineering
- Construction Methodology
- Highway Engineering & Design
- Hydraulics and Hydrology
- Coastal Engineering
- Earthquake Engineering
- Environmental Pollution and Protection
- Water and Wastewater Systems
- Solid Waste Management
- Organic Chemistry & Pollutants in the Environment
- Fluid Dynamics, Fluid Mechanics, Heat Transfer Essentials
- AutoCAD Civil 3D, MEP, Plant 3D, Navisworks, SketchUp, Lumion, Revit for Visualization, MATLAB
- Microsoft Excel, Access, Word, PowerPoint, Visio, Project
- Project Management
- Technical Communication & Writing
- *and more.*

To learn more about this program, please visit:
<https://www.visible-edge.com/gis-and-digital-cartography/>