BROCHURE

Octave University

Geospatial education programs and partnerships



At Octave, we understand the importance of continuing education. Our history of innovation proves just that – we've been pioneers and leaders in the geospatial industry for more than four decades. Our innovative software gives the tools you need to open new doors and invest in the future with confidence.

Octave University offers more than remote sensing or GIS solutions – it gives you access to our entire geospatial portfolio, which includes enterprise GIS and customized app creation, SDKs, photogrammetry, data management and more. There are several Octave University offerings to satisfy the geospatial needs of each university. Depending on your academic focus, you can select programs with desktop, enterprise or cloud platforms, or any combination of the three, to teach the entire geospatial suite.

Get support and tools for research projects and teaching, including rich documentation and deep insights so students understand how to apply these technologies in key industry sectors. We realize the futures of the business and academic communities are inevitably intertwined, and by working together, we can help the world make smarter decisions.

What's in it for you?

Training benefits

- **Free e-training modules:** Fast, focused on-demand training
- **Free webinars:** On-demand, archived webinars and live webinars with Octave technology demonstrations
- **Free step-by-step tutorials and slide presentations:** Lecture materials and example data for university educators in the Octave University Community

Education programs, partnerships and grants

Octave offers the following education programs and grants and is part of the following partnerships:

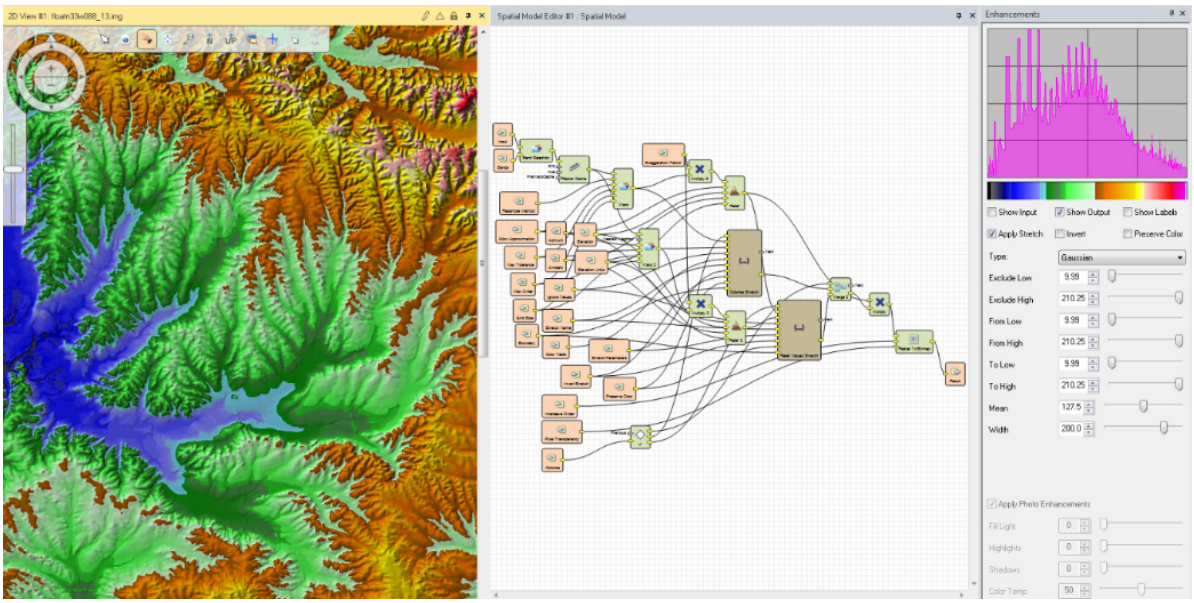
- Remote Sensing for Education Program
- GIS for Education Program
- Octave Alto Education Program
- Octave Alto Enterprise Programs for Education
- Brilliant Remote Sensing Labs Training Partnership
- Campuswide Grant

Programs

Remote Sensing for Education Program

Geographic imaging professionals need to process vast amounts of geospatial data every day. Diverse organizations use Octave Imagine (formerly ERDAS IMAGINE) to leverage their geospatial data investments. Some examples include:

- Land and urban planners monitor and support decision-making for sustainable urban development in dense urban environments with changes
- Data producers use photogrammetric tools to streamline rectification processing workflows, increasing the performance and accuracy of the information generated
- Transportation analysts streamline the construction process and monitor infrastructure
- Defence analysts discover specific activities to support field operations and react to events quickly



With the Spatial Model Editor, available in both Imagine and Octave GeoMedia, an intuitive graphical tool enables complex geospatial analysis and information extraction tasks to be implemented, shared and executed, without the need to learn programming or scripting languages.

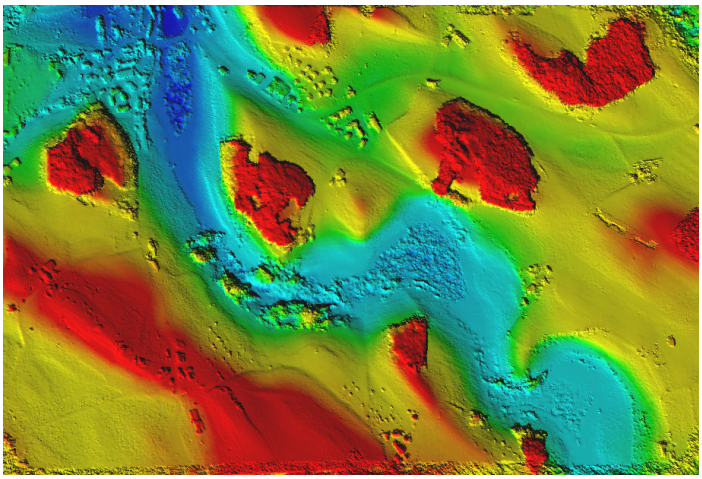
In the Remote Sensing for Education Program, students and instructors will gain hands-on experience in:

- **Octave Imagine:** The world's most widely used remote sensing software package is purpose-built to empower geographic imaging professionals with the tools needed to tackle geospatial data processing

- **Octave Imagine Expansion Pack (formerly IMAGINE Expansion Pack):** These geospatial tools expand the functionality of Imagine Advantage and Professional tiers

- **Octave Imagine Photogrammetry (formerly IMAGINE Photogrammetry):** This photogrammetry mapping production system transforms raw airborne, satellite or UAV imagery into accurate mapping products

- **Octave Imagine DSM Extractor:** This add-on automatically creates digital surface models (DSMs) and point cloud-ready elevation data from imagery



Use advanced photogrammetry techniques such as semi-global matching (SGM) to generate dense point clouds from blocks of imagery.



Use artificial intelligence to classify the points into landcover types and perform watershed analyses and other surface-model based processes.

- **Octave Imagine Terrain Editor (formerly IMAGINE DSM Extractor):** This add-on provides interactive tools to edit and refine digital elevation models directly in a 3D environment

GIS for Education Program

Making a good map requires powerful analytical tools and clear symbolization. A wide range of organizations manage their geospatial feature and vector data with Octave GeoMedia (formerly GeoMedia), a powerful flexible GIS management platform. Some examples include:

- Map production agencies and local, regional and national governments derive valuable information from multiple operations in conjunction with dynamic info on the fly

- Utility organizations can automate management of their network and infrastructure

- City officials get insight needed to reduce traffic and car accidents as well as improve 911 response time

In the GIS for Education Program, students and instructors will gain hands-on experience in:

- **Octave GeoMedia:** This powerful GIS platform allows you to aggregate information from multiple sources, analyze it dynamically and share insights with teams

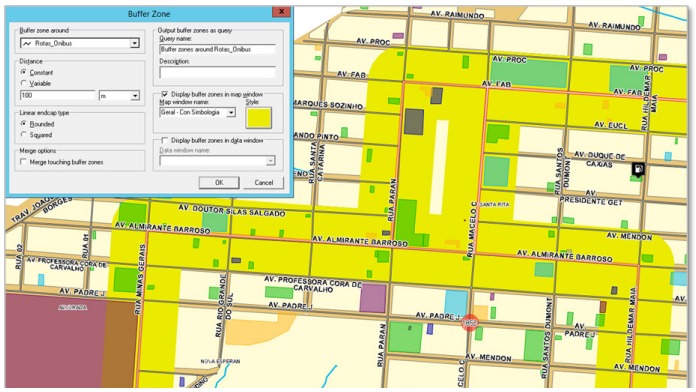
- **Octave GeoMedia Transportation Manager:** This Octave GeoMedia add-on maintains linear networks and supports linear referencing systems (LRS), multilevel LRS (MLRS) and routing workflows

- **Octave GeoMedia Advanced Collection:** This add-on optimizes high-volume vector data capture and validation for the Multinational Geospatial Co-production Program (MGCP) and international mapping

Classroom licenses

Classroom licenses for Remote Sensing and GIS for Education Programs are concurrent (shared) and designed for use on-site at universities.

The university may purchase annual subscriptions or permanent licenses. For details, contact us.



Analyze data and perform complex "what-if" scenario analysis using GeoMedia's query and pipe technology.

Student licenses for use off campus

Octave offers universities the ability to distribute licenses to its students for use off campus. These student licenses are node locked and for use only on students' personal computers. These licenses can be used at home when working remotely. For details, contact us.

Student licenses can be included with the purchase of 5 or more annual subscriptions or permanent software maintenance package for Remote Sensing for Education, GIS for Education or Campuswide Grant programs.

These student licenses are effective at the university's time of purchase or maintenance renewal, and expire 12 months after activation.

Students can join the community for free by registering at Octave University Community. Students do not receive support directly from Octave.

Single-use licenses

For academics who want to use any of the software packages in the Remote Sensing for Education or GIS for Education programs for research projects, we offer a single-seat annual subscription. Single-seat licenses do not include free licenses for students. Academics can also purchase individual permanent licenses at a discount. Contact us for more information.

Octave Alto Education Program

Create next-generation geospatial solutions

Are you looking to teach your students leading-edge capabilities at the forefront of technology? It's no longer enough to simply see the data in real time. Predictive analysis is the next step in making smarter and faster decisions.

Octave Alto SDKs (formerly Luciad) visualize and analyze objects that move and change on the Earth's surface – planes, trains, ships, people, infrastructure and more. These high-performance visualization and analysis solutions are interoperable with other systems, technology and data. Taking 2D and 3D information, this technology adds connections to live sensor feeds as they monitor moving objects, then adds real-time visualization and analysis of the sensor data to immediately calculate and deliver information.

Alto tools are especially suitable for projects in graduate-level computer science, computer engineering, civil engineering, mathematics, computational science and research concentrations. Typical research initiatives where Alto technology can provide rapid application development include big data and visualization, visual analytics research, unmanned vehicles and systems, operations research, smart cities research and smart farming capabilities.

The Octave Alto Education Program offers Alto desktop, server or browser solutions. This program consists of your choice from the following products:

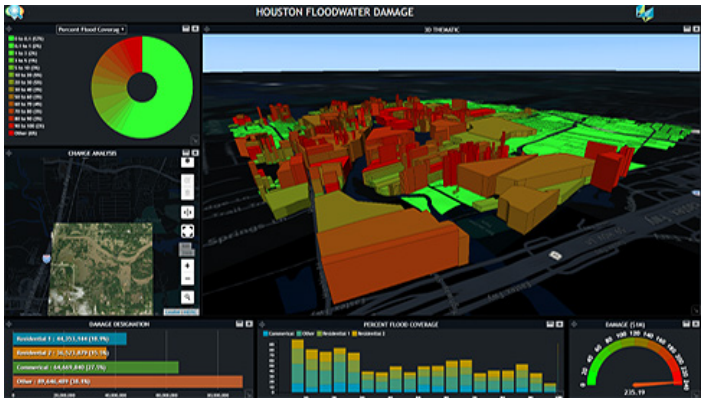
- **Octave Alto Lightspeed (formerly LuciadLightspeed):** Visualize large volumes of tracks of any type of asset – from troops, ships, trucks and planes to individuals or RFID-tagged pallets or goods – instantly (Advanced tier)
- **Octave Alto Server (formerly LuciadFusion):** Store and manage data intelligently, process a multitude of data formats and feed data to numerous applications (Advanced tier)
- **Octave Alto Browser (formerly LuciadRIA):** Build a standards-based interoperable web-based solution that displays in 2D and 3D (Essentials tier)



Visualizing military symbology, tactical graphics and the result of a line-of sight calculation, in 3D draped on terrain



Octave Alto Enterprise map and charts show vehicle collision data.



Octave Alto Enterprise 3D map and charts show floodwater damage.

Octave Alto Enterprise Programs for Education

Build customized applications

Octave Alto Enterprise (formerly M.App Enterprise) is a unified, enterprise GIS platform to build and deploy web, desktop and mobile geospatial apps in one environment, enabling teams to work from the same up-to-date view. Connect directly to files, databases, web services and ERP systems in native formats to create customized applications and visualize in 2D and 3D environments. Academic organizations can select from two options:

- Octave Alto Enterprise for Education Program
- Octave Imagine Web for Education Program

Octave Alto Enterprise for Education Program

Alto Enterprise allows students, professors and researchers to easily create, configure and share applications for their courses and projects. Alto Enterprise can be used campuswide.

Your university may have several different departments that could create and configure their own apps. The geology or geomorphology department may want to create apps that use radar displacement to study land movement using the Spatial Modeler or radar tools. The forestry department may want to use machine learning to count oil palms.

The agriculture department may be interested in vegetation indices for best practices for precision farming. Civil engineering and urban planning departments may want to use geoprocessing in Imagine for change detection.

Octave Imagine Web for Education Program

Suitable for military academies and universities that are training students for a career in the GEOINT community, Octave Imagine Web (formerly M.App X) is a browser-based geospatial platform for users who want to process and analyze imagery in real time using GIS and remote sensing capabilities and without the heavy cost of high-end hardware and software. Imagine Web fosters geospatial tradecraft creation, common usage and secure sharing of the latest intel, making up-to-date information accessible and reusable.

Centralized storage and computation eliminate the cost of maintaining multiple workstations. This

enterprise solution requires only one installation. Students can use Imagine via browser on any operating system, meaning individual licenses need not be purchased.

Built on decades of experience in providing image analysis capabilities, Imagine Web contains industry-specific tools and workflows for the GEOINT community and security organizations.

Partnerships

Brilliant Remote Sensing Labs training partnership

To boost knowledge of remote sensing and satellite image processing topics, our partnership with Brilliant Remote Sensing Labs enables its Remote Sensing Portal to offer free, up-to-date Imagine software education licenses to students, professors and all professionals around the world during their online training period in the Remote Sensing Portal. This online learning portal offers courses and a flexible certificate program. To enroll, visit the Remote Sensing Portal and click Enroll Now to purchase courses.

Grants

Campuswide Grant

Octave University offers universities an education campuswide grant of up to 500 licenses of Imagine Essentials. With numerous licenses, we provide universities with a complimentary, unique and robust package that other geospatial software companies cannot match.

Free student licenses with grant program

The geospatial education Campuswide Grant program allows students to obtain free software licenses for use in the comfort of their own homes. Student licenses must be administered by the university. Contact us for details.

Licensing options

Octave offers flexible subscription and licensing options for a variety of programs. Contact us for details.

Subscription support

Support is available for annual subscriptions and permanent licenses. Support is included with annual subscriptions. Customers who choose permanent licenses must purchase a software maintenance contract annually to receive support portal access and other benefits. Annual student licenses for use off campus are only available with the purchase of annual software maintenance contract for permanent license holders. For more information, contact us.

Documentation is also available for the products in many of the programs. Visit the documentation portal to browse, read, search, comment and save product information.

Octave University Community

Designed for university educators, the Octave University Community contains thousands of pages of curriculum including presentations, tutorials and example data for various products in our education portfolios. Students can follow the step-by-step tutorials for lab exercises.

Become a part of the Octave University Community.

Contact us

Join the technology revolution!

For more information on our education programs, contact your local sales representative, local Octave partner / reseller or the global education manager.

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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