We’re proud to offer powerful knowledge-based computing solutions that inspire world-class research and education—across all fields and at all educational levels.

—Stephen Wolfram
Founder and CEO
ABOUT WOLFRAM
Creating technologies that have the potential to change the world

Founded by Stephen Wolfram in 1987, Wolfram Research is one of the world’s most respected computer, web and cloud software companies—as well as a powerhouse of scientific and technical innovation.

Wolfram is proud to support education and research at top schools worldwide. Wolfram’s flagship Mathematica system has been a central tool for education across a variety of STEM disciplines, and now has millions of dedicated users around the world. Over the years, Wolfram has added Wolfram|Alpha, Wolfram Programming Lab and other products, and continues to apply its technology to deliver uniquely powerful solutions for education—across fields and at all educational levels.

Today, Wolfram’s dramatically expanded offerings for schools, colleges and universities bring the power of deep but easy-to-use computation to areas that have never been able to benefit from computation before—opening up major opportunities to create innovative curricula that use Wolfram tools to integrate learning and research across departments.

Defining New Directions for Education

Just as our flagship product Mathematica revolutionized technical computing, our ongoing development of Wolfram technology and continued dedication to education are transforming the composition of tomorrow’s classroom.

As intellectual pioneers, our organization maintains a deep commitment to communication and education. Not only are our products used at campuses throughout the world, but we have also developed the world’s largest free network of technical and computational websites. Wolfram’s initiatives are defining new directions for curricula and our innovative student programs have served as a rich training ground for future leaders in science and technology.

WOLFRAM|ALPHA
wolframalpha.com

WOLFRAM FOUNDATION
wolframfoundation.org

WOLFRAM DEMONSTRATIONS PROJECT
demonstrations.wolfram.com

WOLFRAM + RASPBERRY PI
wolfram.com/raspberry-pi

COMPUTER-BASED MATH
computerbasedmath.org

WOLFRAM CONNECTED DEVICES PROJECT
devices.wolfram.com
THE WOLFRAM TECHNOLOGY SYSTEM

Enrich teaching and research across campus with the power of Wolfram tools

The Wolfram Technology System comprehensively delivers both classic and new Wolfram technologies to researchers, educators and students across campus. Below are some of the products most commonly included in the Wolfram Technology System.

Products

FEATURED
WOLFRAM MATHEMATICA FOR THE DESKTOP
The definitive tool for technical education and research, dramatically expanded with access to the cloud.

FEATURED
WOLFRAM|ALPHA PRO
The ideal instant computation tool for students in all fields.

WOLFRAM PROGRAMMING LAB
Introduce computation and programming using the unique power of the Wolfram Language.

WOLFRAM FINANCE PLATFORM
State-of-the-art professional finance computation.

WOLFRAM WORKBench
Develop and maintain large-scale systems based on the Wolfram Language.

FEATURED
WOLFRAM MATHEMATICA ONLINE
Zero-configuration Mathematica running through a web browser in the cloud.

WOLFRAM SYSTEMMODELER
State-of-the-art professional systems engineering, integrated with Wolfram technologies.

WOLFRAM ENTERPRISE PRIVATE CLOUD
Apply the full power of Wolfram computation to your private data, utilizing your existing infrastructure.

OTHER WOLFRAM PRODUCTS
• Wolfram Development Platform
• Wolfram Mathematica Add-ons
• Wolfram Mobile Apps
• Wolfram Training
• Wolfram Paid Project Support
MATHEMATICA
Redefining classroom learning and academic research

Mathematica offers a complete environment for teaching and research that seamlessly combines a powerful calculation and dynamic visualization engine with an intuitive user interface that makes it easy for anyone to get started. And because Mathematica also includes built-in documentation and presentation tools, it’s perfect for creating course and project materials. Now there’s no need to jump between different programs to get your work done.

GET STARTED QUICKLY
Mathematica makes it easy to get started, so you can focus on the concepts that you want to teach rather than spending valuable time showing students how to use the software. Enter commands in free-form English, and get suggestions for entering Wolfram Language code, ideas for what to do next and templates for entering calculations.

COMPUTE AND VISUALIZE JUST ABOUT ANYTHING
Mathematica has thousands of built-in functions covering algebraic manipulation to visualization, and everything in between.

- Equation Solving
- Mathematical Computation
- Numerics Visualization
- Engineering Computation
- Algebraic Manipulation
- Data Analysis
- Graph Computation
- Scientific Computation
- Geometric Computation
- Sound Analysis
- Geographic Computation
- Time Series
- Financial Computation

PLAN, PRESENT AND SHARE
Imagine creating interactive course materials that let students manipulate and recalculate results live and then present to a group or send back to you for grading. That’s the power of Computable Document Format (CDF) documents.

SHOW STUDENTS THE “BIG PICTURE”
Shift conversations in the classroom from “how do I solve the problem” to “what would happen if...” Mathematica lets you quickly turn static examples into dynamic models to explore phenomena in real time—often with a single line of code. Or utilize existing Demonstrations, from thousands available for free from the Wolfram Demonstrations Project.
Mathematica is a tool that schools should embrace early . . . and the earlier we get started, the better. The students are a lot more invested in the process. They retain the concepts better . . . and appreciate how it can help them visualize what's going on with their solutions and problems.

Chris Lee, Associate Professor of Mathematics
ROANOKE COLLEGE, USA
MATHEMATICA
Redefining classroom learning and academic research

Once you're ready to explore all that Mathematica has to offer, you'll have access to thousands of built-in functions covering all areas of technical computing—all carefully integrated so they work perfectly together. Mathematica provides robust, efficient algorithms across all areas, including networks, images, geometry, data science, visualization, machine learning and much more, making it the ideal software for advanced-level courses and academic research.

BUILT-IN ALGORITHMS AND KNOWLEDGE
The Wolfram Language, available in Mathematica, offers the largest collection of computable knowledge and algorithms ever assembled. Thousands of original superfunctions and meta-algorithms for automatic algorithmic selection let programmers concentrate on defining what they want to do, and the language will automatically figure out how to do it.

POWERFUL DATA ANALYSIS TOOLS AND STATISTICAL SUPERFUNCTIONS
Pull in your data or ours, do standardized or custom analysis and visualization, then generate and deploy interactive reports. Mathematica includes automated probability and statistics superfunctions, parameter estimation and goodness-of-fit testing tools, and more statistical distributions than any other system. Mathematica also features support for random processes, reliability and survival analysis, and Markov chains and queues.

PROGRAM THE WAY YOU THINK
The Wolfram Language stands out from traditional computer languages in simultaneously supporting many programming paradigms such as procedural, functional, rule-based, pattern-based, object-oriented and even free-form linguistic. This multi-paradigm approach makes Mathematica a perfect choice for everything from computer science curricula to symbolic tensor analysis.

IMAGE PROCESSING AND ANALYSIS
With dozens of advanced image processing algorithms for real-time image acquisition, filtering, segmentation, shape analysis, feature tracking, face detection and more, Mathematica offers a complete environment for image processing and analysis. Using out-of-core technology, Mathematica also scales up performance to very large 2D- and 3D-volumetric images.
Mathematica is the solely most powerful software I have ever used. I used it in function plotting, calculus, 3D model design, etc., to achieve fast algorithm implementation. No matter what I need, be it an accurate symbolic result, or a large-scale numeric solution, Mathematica never let me down . . . I haven’t found anything that Mathematica can’t handle yet.

Shengyi Wang, Software Engineer
TENCENT INC., CHINA

AUTOMATED MACHINE LEARNING
Mathematica offers highly automated machine learning, as well as a variety of built-in classifiers for common machine-learning tasks.

DATA HANDLING AND BIG DATA SUPPORT
Mathematica can handle extremely high-level array operations on large datasets of any dimension of structure, with support for out-of-core data processing. Data can be viewed and edited through a spreadsheet-like interface to easily identify individual elements to extract for analysis.

INCREASE PERFORMANCE WITH PARALLEL COMPUTING
Mathematica automatically runs multiple parts of a computation concurrently on multicore computers—enabling powerful parallel computing to handle even the largest datasets. With seamless scaling to networks, grids, cloud, and ad-hoc and managed clusters such as CCS, HPC, LSF, PBS and SGE, Mathematica also supports many data-sharing models and distributed application frameworks, including Hadoop.

EASILY INTERFACE WITH EXISTING DATA AND PROGRAMS
Mathematica provides robust support for both relational and non-relational databases and a variety of data formats—numerical, textual, geometric, graphical, XML and even sound data. Live integration with SQL databases and languages including R, Java, .NET and C/C++ makes it easy to immediately incorporate them into your existing infrastructure.
Mathematica Online makes it possible to calculate, visualize, program and create interactive CDFs in the Cloud directly in your web browser—with no installation or configuration required. And built-in collaboration tools let faculty across multiple campuses work with each other on their projects and share their content with students across town or across the globe. Whether you’re wanting to incorporate dynamic computation and interactive documents into your course management system or add an online element to existing traditional courses, think Mathematica Online.
WOLFRAM|ALPHA PRO

Instantly compute answers and access knowledge online

Wolfram|Alpha Pro makes it easy to introduce students to computation across a wide array of disciplines, and quickly gets them exploring concepts and thinking critically. This online computational knowledgebase lets you calculate and visualize answers online through a web browser from anywhere on or off campus.

While I fully appreciate the value of understanding calculation and being able to crunch numbers by hand, tools like Wolfram|Alpha have made it possible for me to get students past the rote memorization of computational algorithms.

Diego Oviedo-Salcedo, Instructor
UNIVERSIDAD PONTIFICIA BOLIVARIANA, BUCARAMANGA
USE CROSS-CAMPUS AND CROSS-DISCIPLINE

With enormous breadth and depth of application areas and functionality, Wolfram technology can be used at all levels, cross-campus and cross-discipline. A mainstay of the world’s major academic institutions for more than a quarter of a century, Wolfram technology was initially most popular in departments such as mathematics and physics. Since then, Wolfram technology use has expanded to computer science and engineering, life and social sciences, business and finance, and across campuses.

BIOLOGY & LIFE SCIENCES
Introduce quantitative methods and prepare your students for the computational future with instant access to state-of-the-art visualization, bioinformatics, statistics and modeling—as well as chemical and biological data.

CHEMICAL SCIENCES
From homework calculations with built-in chemical data to classroom demonstrations and experimental data capture, Wolfram tools let your students apply modern computation to chemistry.

BUSINESS/FINANCE/ACCOUNTING
Wolfram tools provide a unique way to teach business students modern quantitative and computational thinking as well as support state-of-the-art quantitative finance, business modeling and analytics.

COMPUTER SCIENCE
With its high level of automation and built-in knowledge, the Wolfram Language gives students a uniquely accessible new path to modern computer science and computational thinking.
PHYSICAL SCIENCES
From classroom simulations to homework calculations, Wolfram tools provide the essential computations and data for physics, and now also allow direct connection to experimental apparatus.

EARTH & ENVIRONMENTAL SCIENCE
Exposé your students to real-world earth and environmental science computations, with extensive built-in data and feeds, as well as working with geodesy and connecting to sensor devices.

ENGINEERING
From homework calculations to real-world design projects, students can use Wolfram tools—with their wealth of built-in knowledge, algorithms and device connectivity—across all areas of engineering.

ECONOMICS
Wolfram tools provide a unique environment for students to engage directly with real-world economics data and do their own computations, simulations and more.

MATHEMATICAL SCIENCES
For both math majors and others, Wolfram products provide the essential computational backbone to teach mathematical thinking and skills, and aid understanding of all forms of math subject matter.

PHYSICAL SCIENCES
From classroom simulations to homework calculations, Wolfram tools provide the essential computations and data for physics, and now also allow direct connection to experimental apparatus.

STATISTICS
Treat your students to state-of-the-art statistical tools, including visualization and machine learning; explore thousands of domains of built-in data; and use Wolfram tools to manipulate formulas as well as numbers.
BENEFITS FOR THE ENTIRE CAMPUS

Bring Wolfram’s powerful, knowledge-based computing solutions to students and faculty across campus, conveniently delivering the best technology for education and research.

For Students

THE TECHNOLOGY CHOICE THROUGHOUT A STUDENT’S CAREER
The Wolfram Technology System can be used by students at all levels, from primary school to post-graduate.

ADOPT THE INDUSTRY STANDARD
Used heavily in industry and government, Wolfram technologies provide students with important knowledge and skills they’ll use later in their careers.

For Faculty

MINIMIZE CLASS PREP TIME
Wolfram technologies are interactive and easy to use, allowing you to create on-the-fly visualizations during class that are based on student questions and work with a wide variety of learning styles. And with over 11,000 interactive visualizations available for free download, you can embed pre-made examples into your own lessons immediately rather than re-creating them from scratch.

ONE LANGUAGE, MULTIPLE USES
The Wolfram Technology System combines a set of teaching and research tools unified by the Wolfram Language. This means you’ll save time by learning a single language that you can use for both classroom and research projects.

For IT Departments

SUPPORT FOR A DIVERSE INFRASTRUCTURE
Save IT time and overhead by eliminating technology that only runs on one type of system. The Wolfram Technology System includes a variety of local installation and cloud-based deployment options that support your diverse IT infrastructure.

REPLACE NICHE TECHNOLOGY
Rather than purchasing specialized software for each department or type of course, Wolfram technologies can be used in a variety of departments on campus, allowing you to replace niche software packages and save money.

For Administrators

SAVE MONEY, MAXIMIZE ACCESS
Consolidate individual departmental Wolfram technology purchases with the Wolfram Technology System, a complete solution that saves money and maximizes access.

USE CROSS-DISCIPLINE, CROSS-CAMPUS, THROUGHOUT AN ENTIRE SYSTEM
The Wolfram Technology System provides a cross-discipline solution that inspires innovation, allowing faculty and staff to collaborate across research projects, departments, colleges and campuses.
Our students should have access to these powerful tools, because it can advance science. Computing in general and Mathematica in particular open many ways to ‘condense’ very difficult previous scientific learning into tools usable by many people.

Keith Stroyan, Mathematics Professor
UNIVERSITY OF IOWA
LICENSING OPTIONS

Group and Organizational Licensing

Whether you’re licensing Wolfram technologies for your entire organization, department or workgroup, you’re sure to find a plan that fits your needs. Our flexible and affordable volume-purchase and site-license programs feature a variety of benefits for users, IT department staff and administrators.

Products may be site-licensed individually or as part of Wolfram Technology Systems, which are custom configured for a variety of institutions and provide campuswide access to Wolfram technologies.

Wolfram Technology Systems for . . .

RESEARCH UNIVERSITIES
Bring Wolfram’s powerful knowledge-based computing solutions to students and faculty across campus, conveniently delivering the best technology for education and research.

COLLEGES & TEACHING UNIVERSITIES
Unify your computing solutions with Wolfram technologies—conveniently delivering multidisciplinary instruction with the best real-world tools.

JUNIOR & COMMUNITY COLLEGES
Engage your students with interactive demonstrations and self-paced computer labs—and use Wolfram tools to provide custom tutor-like solutions to students at all levels of proficiency.

HIGH SCHOOLS & PRIMARY SCHOOLS
Give your students an advantage with the best technology, bringing STEM subjects to life—and now introducing broadly accessible programming education.

Individual Licensing

FOR FACULTY
Wolfram products are easy to use and easy to license. Choose from annual or perpetual licenses, all bundled with one year of service for free upgrades, personal technical support, home-use licensing and more.

FOR STUDENTS
Supplement your students’ use of Wolfram products in campus computer labs with semester, annual or perpetual Student Editions, fully functional versions that let students continue their work on their own computers.
For more than a quarter of a century, Wolfram products have redefined “state of the art” in technical computing—and provided the principal computation environment for millions of innovators, educators, students and others around the world.

100% of the Fortune 50 companies rely on Mathematica to maintain their competitive edge.

Over 15 million people worldwide access Wolfram|Alpha each month.

100% of the world’s top 200 universities have Mathematica.

The Wolfram|Alpha app is consistently top ranked in all app stores.

1 in every 8 Physics Nobel Laureates since 1980 have used Wolfram technology.

Wolfram technology has been used for fashion design, movie and game animations, Olympic stadium design, mathematical content for TV shows and even on the space station.
CONTACT US TODAY

Let our Educational Innovation specialists help you pick the right mix of technologies for educators, researchers, administrators, and students at your campus.

> [www.wolfram.com/education](http://www.wolfram.com/education)