MathWorks®

Create a MATLAB Enabled Campus

MathWorks Licensing for Campus-Wide Use

At 5000 universities around the world, MATLAB is used extensively in teaching, research, and student projects in all fields of engineering, science, economics, and finance. More than 800 of these universities have already upgraded to a Total Academic Headcount (TAH) license. This provides a common suite of MATLAB products to all students and faculty for use in the classroom or lab, as well as off network in the field or at home.

The MATLAB Enabled Campus | Anytime, Anywhere Access for Everyone

The majority of the top technical universities are TAH campuses, including 24 of the world's 25 top-ranked universities—representing millions of MATLAB users.

These schools are among the hundreds that have upgraded:

Aalborg University	Princeton University	University of California Berkeley
Cornell University	RWTH Aachen University	University of Cambridge
École Centrale de Lyon	Seoul National University	University of Melbourne
Georgia Institute of Technology	Stanford University	University of Michigan
Johns Hopkins University	Technische Universiteit Eindhoven	University of Oxford
KTH Royal Institute of Technology	Technische Universität München	University of Pennsylvania
Lund University	Tokyo University of Science	University of Science & Technology of China
Massachusetts Institute of Technology	Tsinghua University	University of Sydney
Mondragón Unibertsitatea	University of Applied Sciences Augsburg	University of Toronto
Ohio State University		Vanderbilt University

For students, knowing how to use MATLAB opens the door to a wide range of disciplines and modeling methods. MATLAB is listed as a common technical skill among LinkedIn members with an engineering background, and is listed as a required skill in thousands of technical job postings.

"We wanted to standardize on one platform for the course, and we didn't want to have to teach that as well," said Dr. Joel Anstrom. "With MathWorks tools, our students can do both modeling and analysis, and then develop an embedded controller without switching software platforms. That is invaluable."

"We decided to adopt the TAH license after noticing a shift in many industries - including automotive, electronics, communication, and medical - from the C programming language to MATLAB and Simulink," said Teruo Tanaka.

Campus-Wide Access to MATLAB Academy

To support users of the Total Academic Headcount (TAH) license, MathWorks offers campus-wide access to self-paced courses online through the MATLAB Academic Online Training Suite through MATLAB Academy.

MATLAB Academy removes the burden of providing training for faculty, researchers, and students on the tools required to do their work and helps universities introduce industry-standard tools into curriculum.

Campus-wide training gives visibility to MATLAB features that can be used in many fields to increase productivity, support multi-disciplinary projects, and enhance student skills.

Ask your MathWorks representative about adding this valuable training to your campus-wide license.

"One advantage of teaching with MATLAB is that our students are exposed to a tool that is used in the commercial world. The quality of the learning materials delivered online and onsite was excellent, enabling me to focus on teaching analytics and working with students."
— Daniel Hulme, University College London

Total Academic Headcount License Features

- Available to all faculty, researchers, and students everywhere: at home and classroom, in lab and field research, and while travelling for academic and educational use.
- Covers all on-campus computing facilities, labs, classrooms, and research centers, as well as all faculty-owned and student-owned personal computers.
- MATLAB Online provides access from a web browser.
- The full suite* option provides the widest and most up-to-date array of products, supporting everything from introductory level courses to advanced academic research.
- Annual expense provides more predictable cost model for budget planning.
- One license eases license management and ensures software license compliance through central administration. Easily integrates into bring your own device (BYOD) programs.
- Pricing is proportional to the size of the student body and number of products licensed, which provides cost efficiencies per user.
- MATLAB Academic Online Training Suite is a cost-effective add-on providing training to all users.

"With the Total Academic Headcount licenses, all faculty and students on campus have access to MATLAB, Simulink, and various toolboxes," said Dr. Jakob Stoustrup. "On multidisciplinary projects, students with quite different educational backgrounds can work together more easily because they are using the same tools."

IT Management Resources

TAH Onboarding Program

MathWorks helps get MATLAB deployed to your user community by making sure you have the right resources at the right time.

The TAH Resource Kit provides resources to:

- Install and deploy the license
- Announce the license to existing MATLAB users
- Deliver proactive communications to promote the license to everyone on campus

MathWorks Installation Support. Live help:

- Answers to your questions in the context of your IT environment

License Center. Centralized license management:

- Manage user information
- Activate and deactivate software
- Retrieve license files and installation keys

User Self-Service

- Download products needed today and use Add-On Explorer to install additional capabilities at any time
- Access free tutorials at MATLAB Academy
- Obtain technical support for faculty and researchers
- Obtain access to MATLAB prerelease and beta versions
- Download free hardware support packages for Arduino, Raspberry Pi, LEGO, and more
- Use MATLAB Mobile on your phone or tablet and synchronize files with MATLAB Drive

* **Contact your MathWorks Account Representative for information on all campus-wide license options, including the full suite, and to receive a price quote.**

Scale MATLAB Applications to Computer Clusters, Data Centers, and HPC Centers

With MATLAB Distributed Computing Server, you can scale up parallel MATLAB applications built with Parallel Computing Toolbox to run on a cluster.

The MATLAB Distributed Computing Server add-on can run up to 32 workers (MATLAB computational engines) on each cluster for which you obtain a license key. Support for larger clusters is also available.

Advantages for users

- Access to cluster resources through the familiar MATLAB environment
- Ability to run the same code on workstations and computer clusters
- Capability to batch execution of serial code as well as scaling of parallel code

Advantages for IT

- Supports commonly used third-party schedulers, and provides a built-in scheduler for clusters that run MATLAB jobs
- Scale can be increased with a simple change of license file
- Infrastructure and documentation for sharing and exchange of code and data

MathWorks technical support team will help administrators with installation and integration for each cluster.

Ask your MathWorks Account Representative for details. Learn more at *mathworks.com/mdcs* or see the MATLAB Distributed Computing Server *Quick Start Guide*.

Connect MATLAB and Simulink to Hardware: Project-Based Learning

Project-based learning uses active educational techniques and gives students hands-on experience working with hardware and software. By extending the approach to incorporate industry-standard software such as MATLAB and Simulink, instructors not only keep students motivated but also prepare them for a range of careers. MathWorks provides free support packages for I/O with MATLAB and automatic programming with Simulink. You can build and run a system on today's hot new hardware including Arduino, LEGO MINDSTORMS, and Raspberry Pi platforms.

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