MATLAB

Charles University is the owner of the Total Academic Headcount (TAH) license for MATLAB, Simulink and ancillary products. Employees, researchers and students can use these products for teaching, research and study. The license allows users to install products on both university-owned and private computers, in unlimited quantities.

About MATLAB and Simulink

MATLAB is an engineering tool and interactive environment for scientific and technical computing, data analysis, visualization and algorithm development, used by millions of engineers and scientists around the world. MATLAB provides solutions in areas such as applied mathematics, machine learning, signal processing and communication, image processing and computer vision, financial analysis and modeling, design of control systems, robotics and many others.

Simulink is an extension of MATLAB for simulating and modeling dynamic systems. It provides the user with the ability to quickly and easily create models of dynamic systems in the form of block schemes.

The open architecture of MATLAB and Simulink has led to the creation of function and block libraries, called application libraries, which extend the use of programs in relevant scientific and technical disciplines. Another group is the Polyspace toolkit, designed to detect run-time errors, verify program code accuracy and certify.

Products available for the University

MATLAB, Simulink and other products are available under a TAH license for the entire University. Application areas include:

- MATLAB
- Simulink
- 5G Toolbox
- Aerospace Blockset
- Aerospace Toolbox
- Antenna Toolbox
- Audio System Toolbox
- Automated Driving System Toolbox
- Bioinformatics Toolbox
- Communications System Toolbox
- Computer Vision System Toolbox
- Control System Toolbox
- Curve Fitting Toolbox
- Data Acquisition Toolbox
- Database Toolbox
- Datafeed Toolbox
- Deep Learning Toolbox
- DSP System Toolbox
- Econometrics Toolbox
- Embedded Coder
- Filter Design HDL Coder
- Financial Instruments Toolbox
- Financial Toolbox
- Fixed-Point Designer
- Fuzzy Logic Toolbox
- Global Optimization Toolbox
- GPU Coder
- HDL Coder
- HDL Verifier
- Image Acquisition Toolbox
- Image Processing Toolbox

- Instrument Control Toolbox
- LTE HDL Toolbox
- LTE System Toolbox
- Mapping Toolbox
- MATLAB Coder
- MATLAB Compiler
- MATLAB Compiler SDK
- MATLAB Report Generator
- Model Predictive Control Toolbox
- Model-Based Calibration Toolbox
- OPC Toolbox
- Optimization Toolbox
- Parallel Computing Toolbox
- Partial Differential Equation Toolbox
- Phased Array System Toolbox
- Polyspace Bug Finder
- Polyspace Code Prover
- Powertrain Blockset
- RF Blockset
- RF Toolbox
- Risk Management Toolbox
- Robotics System Toolbox
- Robust Control Toolbox
- Signal Processing Toolbox
- SimBiology
- SimEvents
- Simscape
- Simscape Driveline
- Simscape Electronics
- Simscape Fluids
- Simscape Multibody
- Simulink 3D Animation
- Simulink Check
- Simulink Code Inspector
- Simulink Coder
- Simulink Control Design
- Simulink Coverage
- Simulink Design Optimization
- Simulink Design Verifier
- Simulink Desktop Real-Time
- Simulink PLC Coder
- Simulink Real-Time
- Simulink Report Generator
- Simulink Requirements
- Simulink Test
- Spreadsheet Link
- Stateflow
- Statistics and Machine Learning Toolbox
- Symbolic Math Toolbox
- System Identification Toolbox
- Text Analytics Toolbox
- Trading Toolbox
- Vehicle Network Toolbox
- Vision HDL Toolbox
- Wavelet Toolbox
- WLAN System Toolbox

With MATLAB TAH license, you will gain access to these services:
- MATLAB Online
- MATLAB Drive
- MATLAB Mobile
- Additional MATLAB courses at MATLAB Academy (after logging in with a MathWorks account)
- IoT platforma integreted with MATLAB

Procedure for obtaining a license and installing

The following installation procedure applies to individual employee and student licenses. Classrooms and laboratories are equipped with a floating network license, contact your faculty administrator for details. MATLAB Online is available to all users who create a MathWorks account using the link below. If you are only interested in MATLAB Online, you only need to complete Step 1 - Creating an Account.

Download procedure

1. If you don't have an email address ending with cuni.cz go to office365.cuni.cz and create an address PersonalNumber@o365.cuni.cz
2. Create an account with MathWorks using an email address from the cuni.cz subdomain.
3. Open the License Center
4. Click on Add License in the upper right corner.
5. Choose Associate by Activation Key and click on Continue.
6. For an Activation Key request, enter:
   - 10815-55529-20846-75278-88613
7. Go to Download Center
8. To get the current version, click on the download button.
9. To download the installer, click on the installer button.

Installation and activation

1. The installer you downloaded is located in the default folder for downloaded files, unless you specified otherwise. The installer name is (where XXXXXX is the version name):
   - Windows: matlab_XXXXXX_win64.exe
   - Mac OS X: matlab_XXXXXX_maci64.zip
2. Run the installer
   - Windows: Double-click to run the installer downloaded in the previous step. The self-extracting archive is started and then the installation.
   - Mac OS X: Double-click on the file downloaded in the previous step to extract the archive to the directory called matlab_XXXX_maci64, where XXXXXX is the version name. Double-click on the InstallForMacOSX file inside the directory to run the installation
3. In the installer, choose Log in with a MathWorks Account and follow the displayed instructions.
4. When prompted, choose the license you want to use.
5. Select the products you want to download and install.
6. After downloading and installing the products, select the Activate MATLAB option and click Next.
7. STUDENTS: Check that the displayed name is correct for the user name request. Then continue with the activation.

Step-by-step installation wizard .

How to get started: find out the software options and usage

- TAH resource kit - information for TAH license users (students, employees and administrators)
- MATLAB Academy - OnRamp courses - learn MATLAB in just 2 hours
- MATLAB online - instant access to MATLAB from a web browser
- Videos and Webinars - search for video by application or product will allow you to learn about the extensive capabilities and how to use MATLAB & Simulink
- MATLAB Examples - free code collection and examples of their use for MATLAB & Simulink

Support

Contact technical support in the following order.
- Humusoft technical support: support@humusoft.cz
- IT administrator of your faculty.
- TAH license administrator: Aleš Houdek