

# GAMRY Echem ToolkitPy Software Tools User Guide

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## GAMRY Echem ToolkitPy Software Tools



## Gamry Software Suite Installation

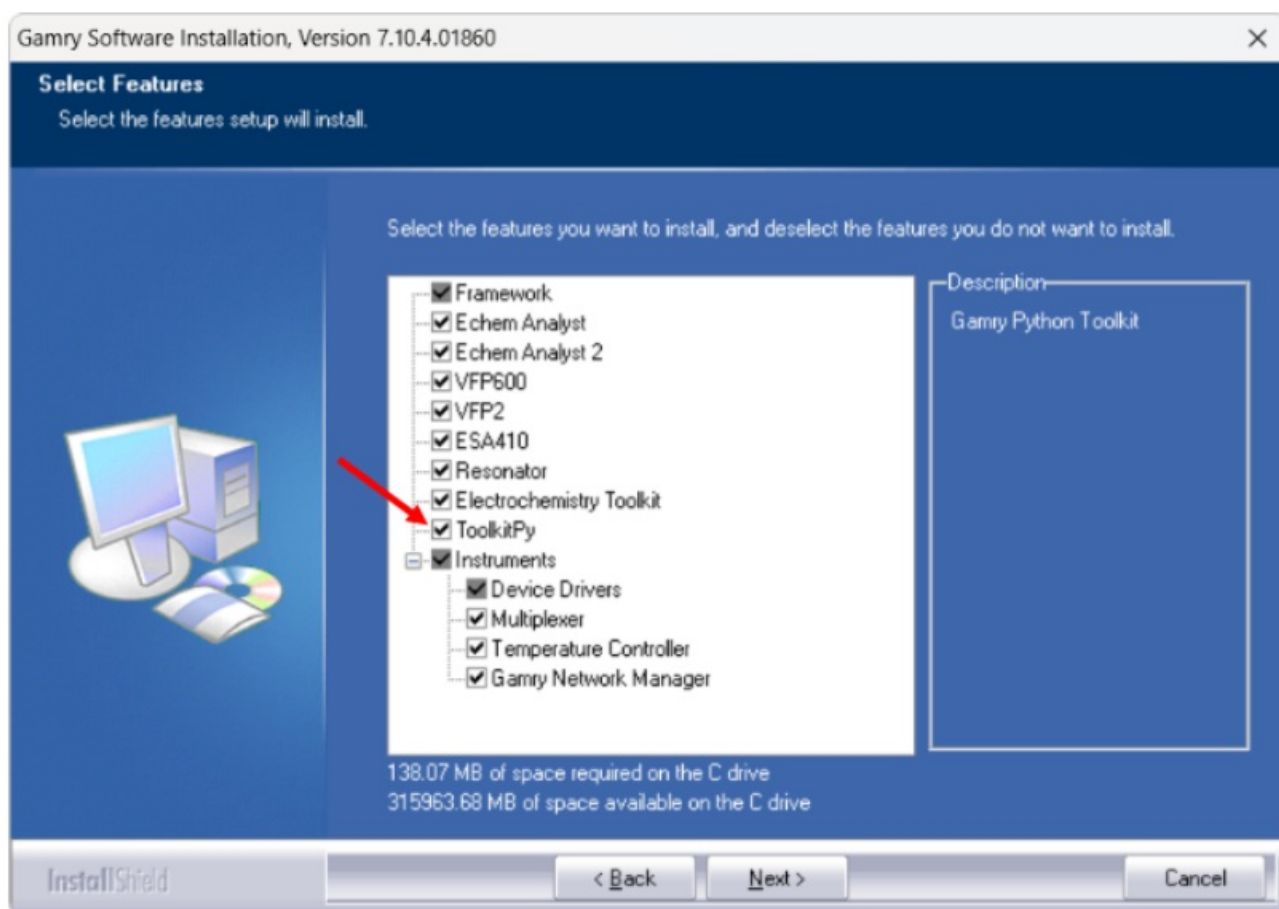
For the installation process, you will require Gamry's software Version 7.10.4 or higher. If you have not installed Version 7.10.4 yet but own one of our instruments, download the latest installation file on Gamry's Client Portal.

Gamry's Software Suite Installer provides all necessary files for the installation of the ToolkitPy software development tool.

It includes ToolkitPy, a Python Installer for a curated version of Python 3.7.9 (32-bit), and various site-package libraries such as NumPy 1.21.6 or PySide2 5.15.2. Python Package Index (PyPI) should not be required.

During the installation, you can add various software features. Programs such as Echem Analyst 2 or Framework are already pre-selected by default.

ToolkitPy may not be automatically selected. Click on the checkbox next to ToolkitPy to add it to the installation process. Press Next to continue and follow the subsequent steps.



After selecting the ToolkitPy feature and the installation has been completed, the following file directories will be installed:

Description	Directory
Python components	C:\ProgramData\Gamry Instrument\Python
Sample scripts	C:\ProgramData\Gamry Instrument\Python\Scripts
Source code for VFP2	C:\ProgramData\Gamry Instrument\VFP2

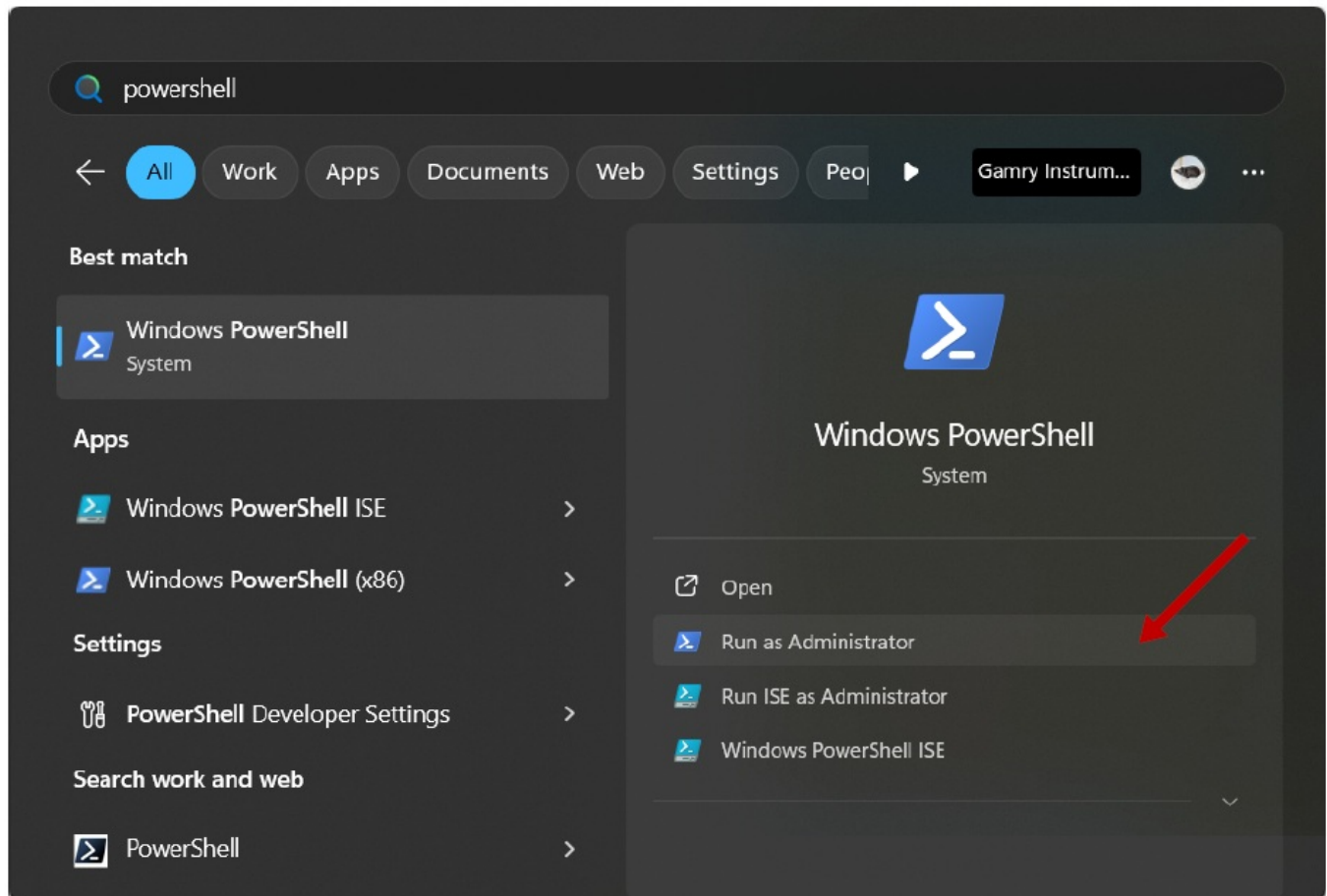
You are now ready to install the ToolkitPy software package.

## ToolkitPy Installation

Make sure that you have administrator rights on your host computer. If you are unsure of your privileges on the device, please contact your IT Department.

Before starting the installation, you must verify that the computer has the proper ExecutionPolicy to ensure that PowerShell can execute the installation script.

Launch Windows• PowerShell by right-clicking the program and selecting Run as administrator. Select Yes to allow changes when prompted.



In PowerShell get the ExecutionPolicy list to see what is currently allowed.

### First execute:

```
Get-ExecutionPolicy -List
```

### Then, execute:

```
Set-ExecutionPolicy RemoteSigned - Scope LocalMachine
```

This will allow PowerShell to run the script. The policy change will ask you to apply the change to a portion, all, or none of the current policies. Use a for Yes to All.

### Finally, execute:

```
Get-ExecutionPolicy -List
```

The last step is repeated to verify the changes. Close PowerShell once the change is confirmed. See the figure below for the fully executed sequence.

```
Administrator: Windows PowerShell

Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine Bypass

PS C:\Windows\system32> Set-ExecutionPolicy RemoteSigned -Scope LocalMachine

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): a
PS C:\Windows\system32> Get-ExecutionPolicy -List

Scope ExecutionPolicy
-----
MachinePolicy Undefined
UserPolicy Undefined
Process Undefined
CurrentUser Undefined
LocalMachine RemoteSigned

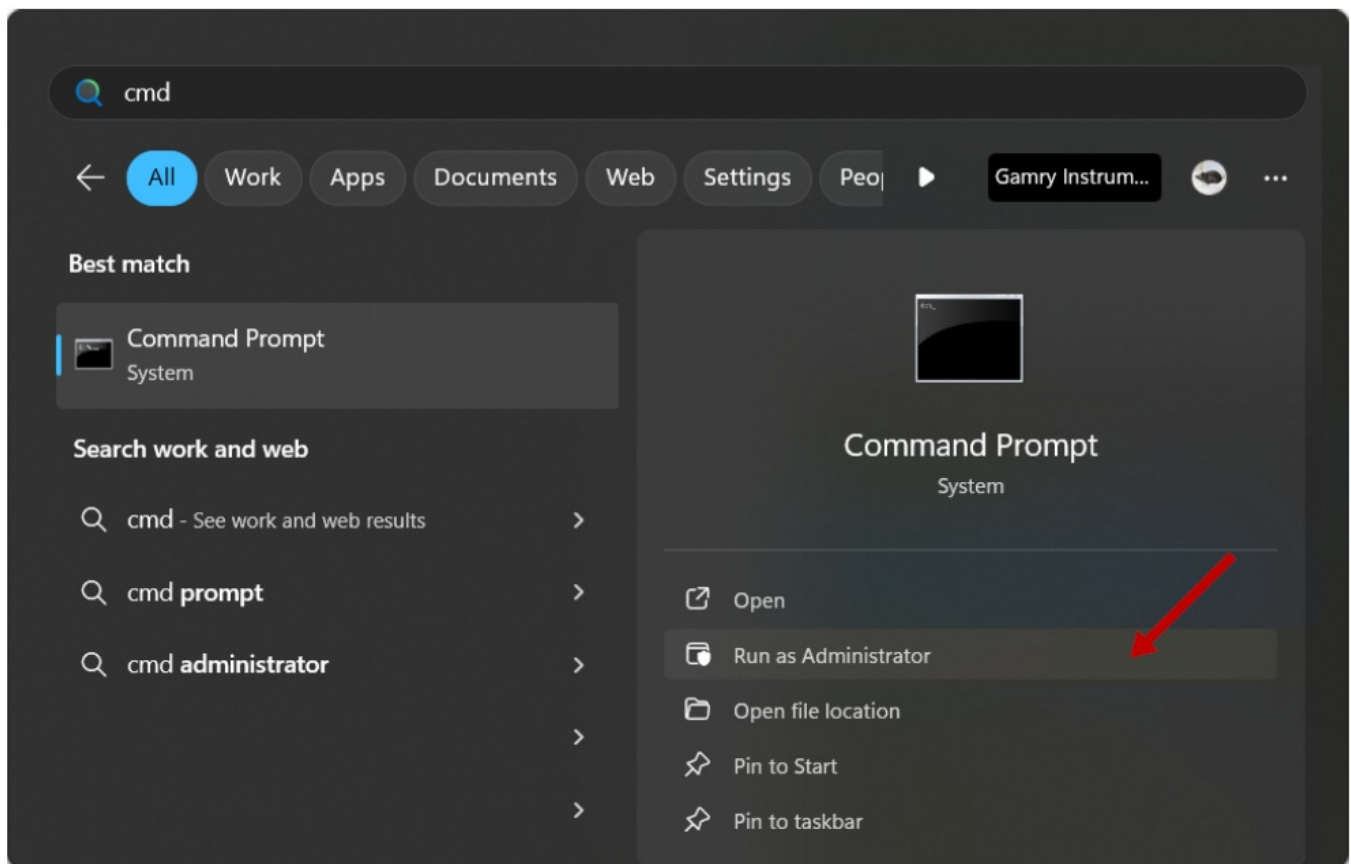
PS C:\Windows\system32>
```

## Python 3.7 .9 Installation

If you have an existing installation for Python 3.7 (32-bit), you must uninstall it using the control panel Apps > Installed Apps utility.

Proper installation of Python 3.7.9 will not occur if an existing copy is stored anywhere on your computer, including other users' folders.

Open a Command Prompt by searching in the Windows Start menu for cmd and selecting Run as administrator. Select Yes to allow changes.



The Command Prompt window header will be labeled Administrator Command Prompt if it has been opened properly.

**In the Command Prompt, change the directory by typing:**

```
cd C:\ProgramData\Gamry Instruments \Python\Python37-32
```

**Press Enter to confirm and then type:**

```
powershell .\install_32bit.ps1
```

Enter y to proceed with the installation.

First, Python 3.7.9 will be installed at C:\Program Files (x86)\Gamry Instruments \Python \Python37-32.

Afterwards all required site-packages will be installed. If the installation was successful, you will see a message that the installation was completed.

**Continue and test the installation. Change the directory by typing:**

```
cd C:\program files (x86)\gamry instruments\python\python37-32
```

**In this directory, type:**

```
Python
```

Press Enter. The first line under the command should list Python 3.7.9, as shown in the image below.

```
Administrator: Command Prompt - Python

Installation Complete.
Log files in: C:\ProgramData\Gamry Instruments\python\Python37-32\logs

Press enter to close:

C:\ProgramData\Gamry Instruments\python\Python37-32>cd c:\program files (x86)\gamry instruments\python\python37-32
c:\Program Files (x86)\Gamry Instruments\Python\Python37-32>Python
Python 3.7.9 (tags/v3.7.9:13c9474c7, Aug 17 2020, 18:01:55) [MSC v.1900 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Close the Command Prompt.  
You are now ready to use the Echem ToolkitPy software package.

You can find the ToolkitPy Help Manual by searching ToolkitPy Help in your Windows Start Menu.  
The extensive Help contains all the information you need to start developing scripts with ToolkitPy, including sample scripts.


Contact your local Gamry representative or Gamry's technical support if you experience any problems.

**Phone:** +1 [215-682-9330](tel:215-682-9330)



**Web:** <https://www.gamry.com/support-2/>

**Email:** [techsupport@gamry.com](mailto:techsupport@gamry.com)

## Documents / Resources

	<p><a href="#">GAMRY Echem ToolkitPy Software Tools</a> [pdf] User Guide</p> <p>Echem ToolkitPy Software Tools, Echem ToolkitPy Software Tools, ToolkitPy Software Tools, Software Tools, Tools</p>
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## References

-  [Gamry Instrument's User Account Gamry Instruments](#)
-  [Service and Support Pages: FAQ-Electrochemical Training-Tech Support Gamry Instruments](#)
- [User Manual](#)

[Manuals](#), [Privacy Policy](#)

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