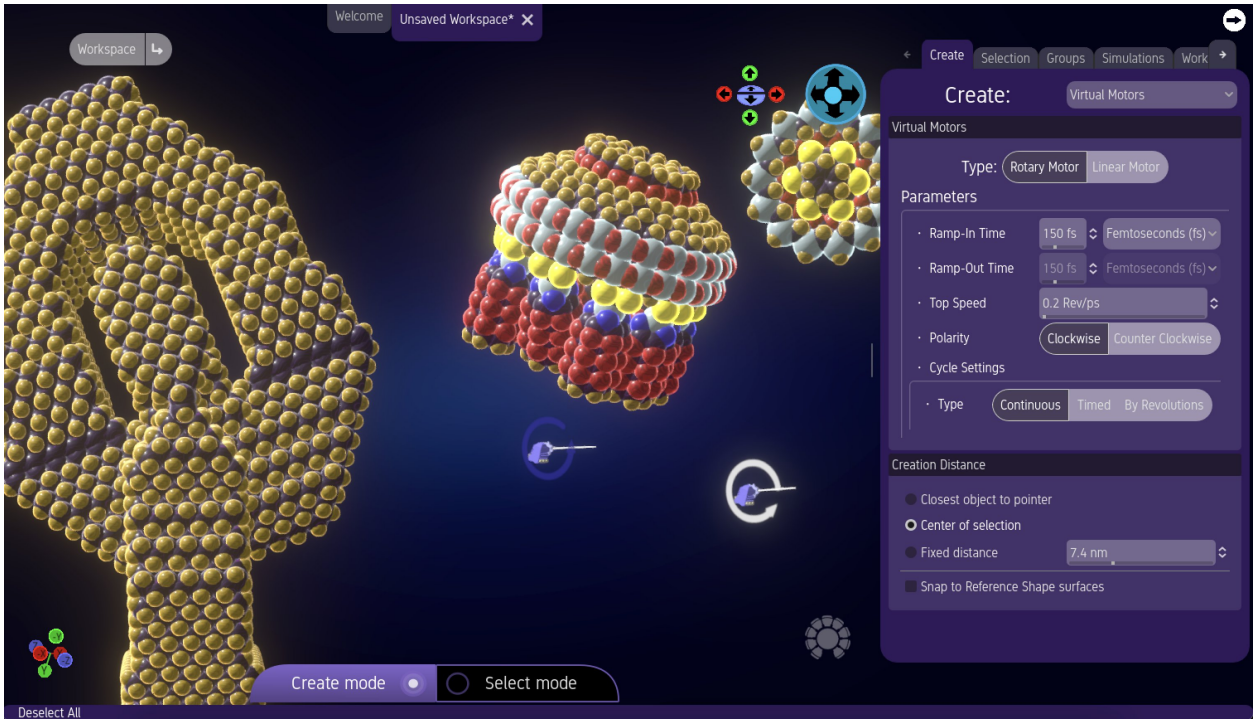
NEWS RELEASE

Jun 25, 2025 For Immediate Release	Contact: Media Relations, MSEP Foundation contact@msep.one

MSEP.one – The Molecular Systems Engineering Platform

Now Available!



OXFORD, England - What if building and simulating nanomachines were as fun and easy as playing your favorite video game?

What would you create? A device to capture greenhouse gases? A machine to identify and destroy cancer cells? A super-high efficiency engine? Or perhaps a working Ferris Wheel barely 30 nanometers tall?

MSEP.one lets you do all this and much more. MSEP.one delivers powerful features that can enhance the work of professional research scientists, chemists, and educators.

But its intuitive user interface also makes MSEP.one perfect for students and hobbyists.

What is MSEP.one?

MSEP.one, conceived by nanotechnology thought leader Dr. Eric Drexler, offers researchers a powerful, freely available open-source platform to help with today's scientific tasks and foster designs for the future of generative nanotechnology.

With its feature-rich molecular editor, MSEP.one lets users build and simulate nanodevices. Virtual Motors provide power, while anchors and springs constrain their motions.

Soon, budding nano-inventors will be sharing creations with a wide community of molecular engineers.

Using MSEP.one

- *Teaching Tool* – MSEP.one provides students and teachers, a hands-on way to visualize atoms, molecules, bonds, and their interactions.
- *Modeling, Visualization and Simulation* – With its wide variety of features and its best-in-class user interface, MSEP.one speeds the work flows of professional scientists, academics, and researchers.

Free and Open Source

Built on GODOT, the popular open-source game engine, MSEP.one and its scientific tools are free to use.

Download MSEP.one here

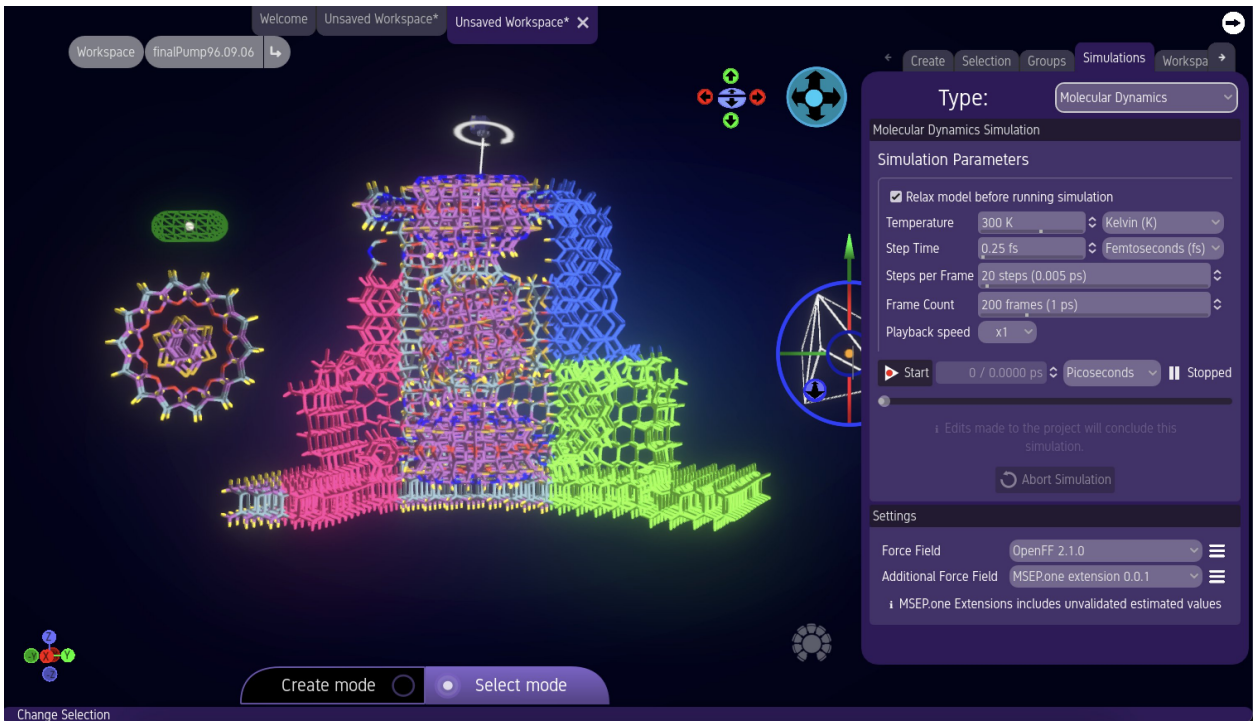
The MSEP Foundation

Formed in February of 2025, the **MSEP Foundation** administers charitable contributions made to the MSEP.one Project.

Acknoledgements

MSEP.one was made possible with support from:

- The Astera Institute
- Survival and Flourishing Fund
- Protocol Labs


Welcome
Unsaved Workspace*
Unsaved Workspace*
Workspace
finalPump96.09.06
Create
Selection
Groups
Simulations
Workspa
Type:
Molecular Dynamics
Molecular Dynamics Simulation
Simulation Parameters
Relax model before running simulation
Temperature
300 K
Kelvin (K)
Step Time
0.25 fs
Femtoseconds (fs)
Steps per Frame
20 steps (0.005 ps)
Frame Count
200 frames (1 ps)
Playback speed
x1
Start
0 / 0.0000 ps
Picoseconds
Stopped
Edits made to the project will conclude this simulation.
Abort Simulation
Settings
Force Field
OpenFF 2.1.0
Additional Force Field
MSEP.one extension 0.0.1
MSEP.one Extensions includes unvalidated estimated values
Create mode
Select mode
Change Selection


Welcome
Unsaved Workspace*
Unsaved Workspace*
Workspace
finalPump96.09.06
Create
Selection
Groups
View
Hide selected objects or atoms.
Change Atom Type
Change Bond Type
Select Atoms by Type
Lock/Unlock Atoms
Override Default Colors
Selection Information
Property
finalPump96.09.06
Total Atoms Count
1947
Info by Type
H (Hydrogen)
Count
675
Create mode
Select mode
Change Selection