

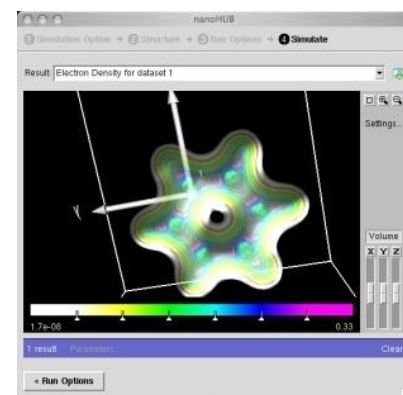
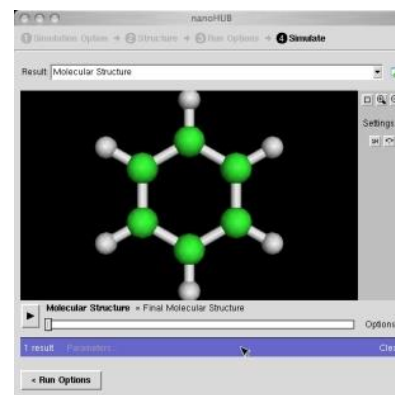
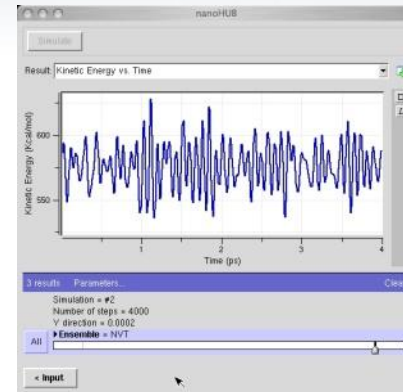
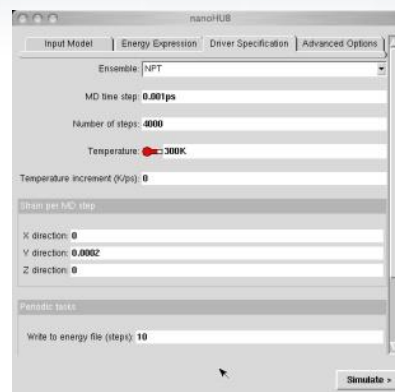
**Objective:** Deploy educational and research tools for electronic structure simulations and molecular dynamics of nano-material on nanoHUB

**Method:**

- Write programs/ Tcl scripts
- Use knowledge of DFT and MD and existing codes, prepare examples
- Use rappture interface

**Results:**

- MATLAB code for Hartree Fock calculations of H<sub>2</sub> molecule
- nanoMaterials Simulation Toolkit with GUI for MD and DFT simulations
- ABINIT on nanoHUB for DFT with GUI



**Impact:** The tools/ codes have already served more than 4000 users