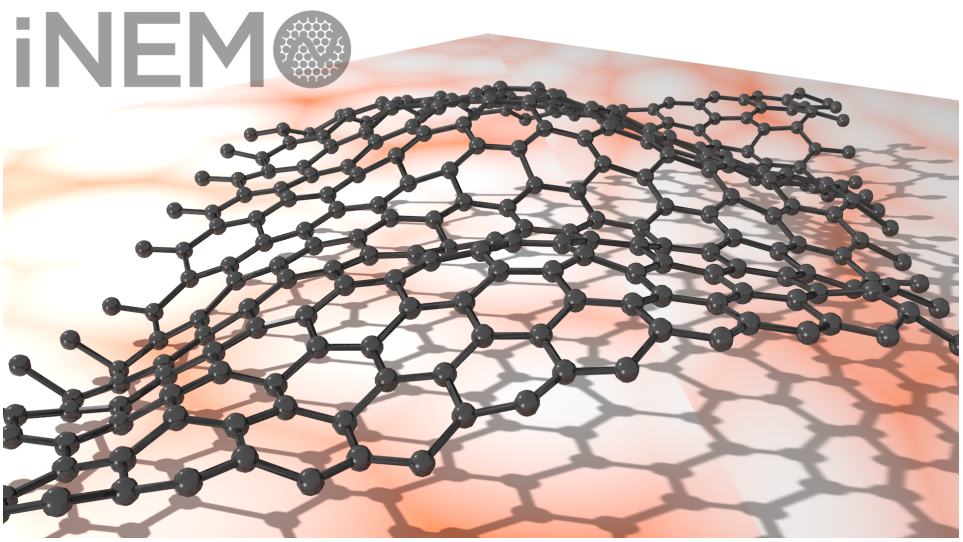
NEMO5

Researchers at Purdue University have developed NEMO5, a new modeling tool for analyzing the function of nanoelectronics. NEMO5 is based on open-source software, allowing for a great range of compatibility. The tool can be used to calculate multi-million atom strains, band structures, multiphysics simulations, and quantum transports, as well as uses in many other applications. Electronics design continues to present a host of new challenges to engineers. Construction and testing of small nanoelectronics are demanding and modeling tools are increasingly relied on to provide information on the structure and behavior of these devices. However, NEMO5 is multilevel parallelized, which enables the modular design to use a variety of physical models with different length scales and numerical complexity when analyzing nanoelectronics.



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