6.4 Biophysics and Computational Physics Sub-Theme

Computational physics develops algorithms that are of immense use in industries and medical issues. Research output on material computation can serve as an input to any nanoscale related research to improve the efficiency of the material for energy generation, waste treatment, sensors and so on. In spite of immense industrial applications, research works are scanty so far. Cognizant of enormous use of computational research in industries and medicine, the Computational Physics Sub-theme prioritized Material Computation, Algorithm Development, Evaluation and Applications from the following specific project components' stand point.

- Material Computation;
- Modeling Stochastic Events (Case of Pandemics and Data Mining);
- Simulation and Application Virtual as Laboratory;
- Industrial (agricultural, factory) Applications (process and quality control);
- Algorithm Development and Evaluation of its Accuracy and Computational Speed.