## COMPUTER SIMULATIONS OF SELECTED NANOCOMPOSITE MODELS

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## **Project description:**

Materials consisting of periodically repeating sequences of two or more layers of different substances often have physical properties that differ significantly from the same properties of their components and are called composite materials. The recent development of nanotechnology has intensified research on various physical and chemical phenomena at the nanoscale in many fields of science and technology. An interesting issue is the attempt to consider composites at the nanoscale. The proposed topic of the doctoral dissertation concerns the construction of nanocomposite models and the study of their basic physical properties (e.g., transport coefficients or elastic properties).

## Aim of the project:

The aim of the study is to investigate the basic physical properties of selected nanocomposite models using computer simulation methods.