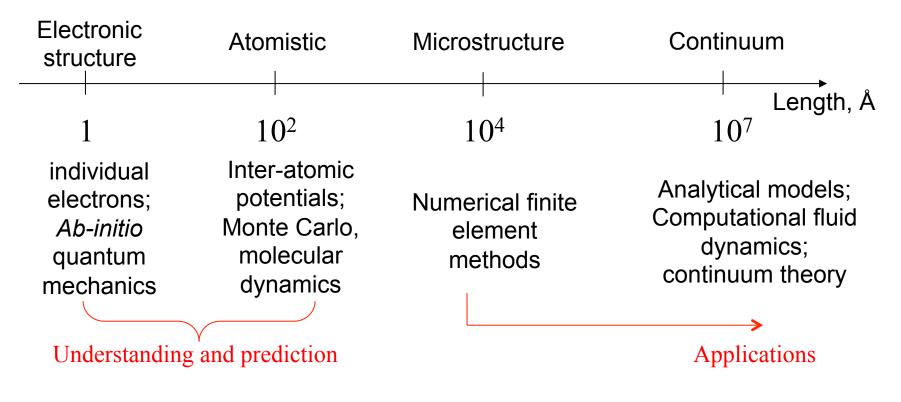
Reasons for computational modeling

- 1. To interpret experimental data
- 2. To gain a deeper, microscopic understanding of materials and their macroscopic behavior via controlled modeling
- 3. To predict physical/chemical properties of materials <u>prior</u> to experiments (inverse band structure approach)



Length Scales in Materials Modeling