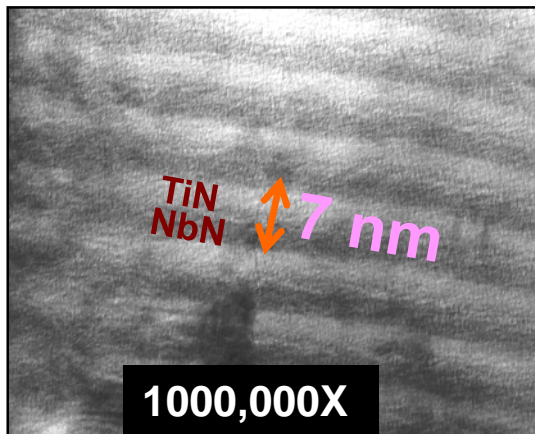


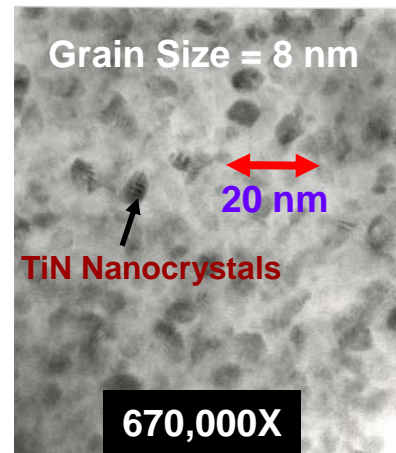
Moving From Micro to the Nano Age

Nanolayered multilayer Coatings and Nanocomposite Coatings as Futuristic Superhard Materials

Apart from high hardness (>40 GPa) the nanostructured coatings exhibit high oxidation resistance, toughness, corrosion and wear resistance.



TiN/NbN multilayer coating



TiN/a-C nanocomposite coating



Semi-industrial sputtering facility



TiN coated HSS drill bits

NAL has developed capabilities to deposit nanostructured coatings on small components.



- TiN/NbN, TiN/CrN, TiAlN/CrN, TiAlN/CrAlN
- TiN/a-C, TiN/Si₃N₄, TiAlN/Si₃N₄, CrAlN/Si₃N₄

