Center for Energy Frontier Research in Extreme Environments (EFree)

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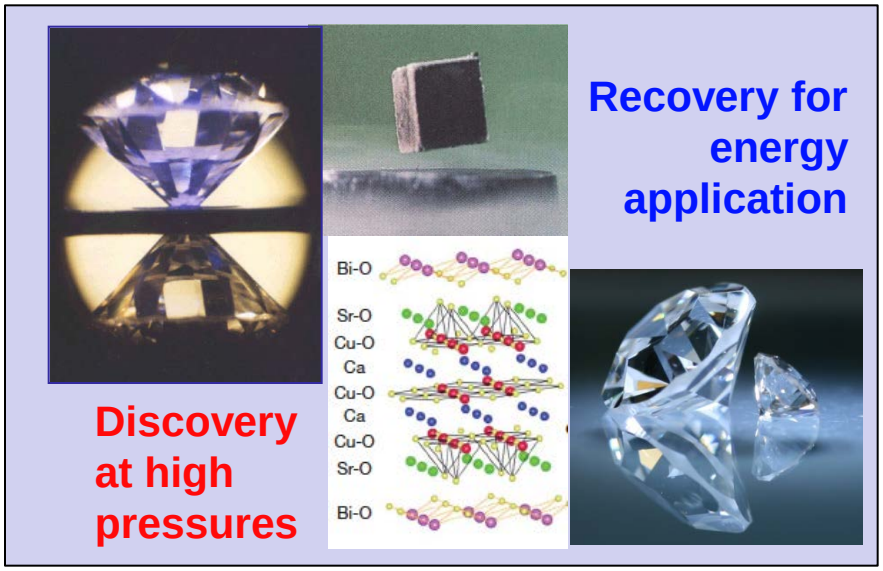
Vision: The long-term future of the nation's energy relies upon transformative materials with extremely useful properties. The high-pressure environments represent a vast untapped frontier where the desired materials are waiting to be discovered.



Research Plan: High-pressure studies will be conducted for discoveries of novel materials and phenomena, including extremely efficient and clean fuels, record-high temperature superconductors, key components resistive to extremely harsh environments, etc. We will design alternative routes to bring the novel materials to ambient conditions for energy applications.

an Office of Basic Energy Sciences

Energy Frontier Research Center