

**Abstract for CRADA between NETL and Eion Corp**  
**(AGMT-1287)**

The National Energy Technology Laboratory (NETL) and Eion Carbon (Participant) will collaborate in the development of critical metals (CM) extraction from mafic feedstocks prior to carbon dioxide (CO<sub>2</sub>) removal (CDR) strategies. Mafic/ultramafic feedstocks may provide a source of energy relevant CM (e.g. Co, Cu, Ni, REE) in addition to reducing atmospheric CO<sub>2</sub> through enhanced weathering and subsequent ocean alkalinity enhancement. This research will identify candidate feedstocks with salable CM and methods for CM extraction as value added byproducts for the principal intended use of these alkaline feedstocks by Eion as a permanent CDR approach on farmland.