

Lignite Research Program- Grant Round 105- Application Summaries						
Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
LRC-105-A	Bipartisan Infrastructure Law (BIL)- Production of Germanium and Gallium Concentrates for Industrial Processes	Microbeam Technologies, Inc	36 Months	This Phase II project will demonstrate a patented process for recovering and refining germanium (Ge) and gallium (Ga) from UND's pilot MREC into high-purity metals. The project aims to increase domestic production of these critical materials using an efficient, lower-cost process that supports U.S. industry and supply chain security.	\$375,000	\$3,134,978
LRC-105-B	Williston Basin Regional Initiative Technical Assistance Partnership: Support for Continuation of PCOR Partnership	Energy & Environmental Research Center (EERC)	36 Months	The WB-RITA Partnership will support the deployment of carbon capture, utilization, and storage (CCUS) technologies across the Williston Basin by providing technical assistance, stakeholder engagement, and public education. The project aims to address carbon storage and transportation challenges, advance safe CCUS deployment, and strengthen North Dakota's lignite industry through emissions reduction and new economic opportunities.	\$1,250,000	\$6250,000
LRC-105-C	Coal Creek Carbon Capture: Geologic CO2 Storage Complex Development Add-On	Energy & Environmental Research Center (EERC)	23 Months	This project will complete the characterization and permitting of a geologic CO ₂ storage complex for Coal Creek Station, supporting carbon capture and storage (CCS) capable of storing up to 200 million metric tons of CO ₂ . Additional site characterization and testing will reduce uncertainties, optimize storage design, and advance deployment of CCS to reduce emissions, support North Dakota's lignite industry, and prepare the project for construction.	\$5,150,874	\$10,945,607