

| Lignite Research Program- Grant Round 92- Application Summaries |                                                                                                                            |                                               |                  |                                                                                                                                                                                                                                                                                                  |                   |                    |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|
| Application Number                                              | Application Title                                                                                                          | Applicant                                     | Project Duration | Summary of Project                                                                                                                                                                                                                                                                               | Funding Requested | Total Project Cost |
| LRC-92-A                                                        | Laboratory-Scale Coal-Derived Graphene Process                                                                             | Energy & Environmental Research Center (EERC) | 36 Months        | To develop a process for converting North Dakota lignite into high-value graphene and other advanced carbon materials, creating new nonenergy markets, increasing the value of lignite, and supporting commercialization of coal-based products for electronics and energy storage applications. | \$162,500         | \$931,564          |
| LRC-92-B                                                        | Drill Stratigraphic Test Well & Determine Feasibility of Central ND Geology to Safely and Permanently Store Carbon Dioxide | Midwest AgEnergy                              | 1 Year           | To evaluate the feasibility of long-term carbon dioxide storage near the Blue Flint Ethanol Plant by drilling and analyzing a stratigraphic test well to support future carbon sequestration and Class VI permitting.                                                                            | \$3,388,000       | \$6,956,000        |