**Project Title:**

**Specific Aims (100-word limit).** State the specific objectives of the proposed research (e.g., test a stated hypothesis, solve a specific problem, challenge an existing paradigm, develop new technology), providing concise and unambiguous details.

**Mission Relevance (100-word limit).** Explain how your research addresses [EMSL’s mission](https://www.emsl.pnnl.gov/user-program#research-alignment-with-BER) (and, if relevant, ARM's mission) and advances the science pertinent to DOE’s Biological and Environmental Research program, and describe the value/impact of its economic or societal importance.

**Approach or Work Plan (300-word limit).** Describe the work to be conducted at EMSL (and, if relevant, with ARM), including the experimental design, a sample description, replication, and the types of analyses to be performed at EMSL. If your research includes computation, provide an estimate of the computational resources needed and the team’s expertise for running the necessary software.

**Expected Sample Sets and Resources.** Fill out the table below with a high-level overview of your sample sets, including the specific instruments/highlighted capabilities being utilized. You will have the ability to add/remove resources during final proposal submission.

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| **Sample Set Goal** | **Sample Type** | **# of Samples** | **Analytics** | **Optional Comment\*** |
| Identification of 13C labeled metabolites | Soils | 15 | NMR for Liquid/Dissolved Organic Matter (DOM) | Isotopically labeled |
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\*Optional comments might include agrochemical or isotope addition, media composition, salinity, pH, biomass yield, etc.

**Active Collaborators List.** Active collaborators and individuals who may represent a conflict of interest for the PI and co-PI(s) from the past 2 years. Place an “X” in the appropriate column to indicate the type of conflict.

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| **PI name:** | | | | |
| **Last Name, First Name** | **Key Coauthor** | **Collaborator** | **Advisee/ Advisor**  *(specify)* | **Other**  *(specify nature)* |
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| **Co-PI name:** | | | | |
| **Last Name, First Name** | **Key Coauthor** | **Collaborator** | **Advisee/ Advisor**  *(specify)* | **Other**  *(specify nature)* |
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**Suggested Reviewers (optional).** Proposers may include a list of reviewers who they believe are especially well qualified to review the proposal and who are not recent collaborators/coauthors.

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| --- | --- | --- |
| **Suggested Reviewers** | | |
| **Reviewer Name** | **Institution** | **Email Address** |
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