**Letter of Intent**

*Note: This template is provided for letter of intent submissions to calls for Large-Scale Research, EMSL-ARM FICUS, and Exploratory Research proposals. Please refer to the* [*EMSL website*](https://www.emsl.pnnl.gov/proposals#types-of-proposals) *for details, including formatting requirements.* ***All italicized text should be deleted and replaced with your proposal content.***

**Title:** *The project title must be brief, scientifically or technically valid, intelligible to a scientifically or technically literate reader, and suitable for use in the public press.*

**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, or 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/about) *(and, if relevant,* [*ARM’s mission*](https://arm.gov/)*) 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). Briefly describe the work to be conducted at EMSL (and, if relevant, with ARM). Provide a sample description (including unique characteristics such as transgenic biological material, dilute solution, environmental samples containing contaminants, etc.), approximate numbers of samples, any pertinent experimental groups or sampling time points, and the types of analyses to be performed at EMSL. Provide a short description of planned data analyses relevant for the proposed work, indicating which aspects would require EMSL assistance. If your research includes computation, describe what EMSL capabilities and expertise you will need, and how those capabilities complement your own.*

**EMSL Samples and Resources (required).** Fill out the table below with a high-level overview of the samples you intend to analyze at EMSL throughout the duration of your project. For EMSL’s purposes, a sample is any material intended to be analyzed or used with EMSL resources. You will have the ability to add/remove resources during final proposal submission.

Check the box if you want assistance, prior to full proposal submission, with [statistical design](https://www.emsl.pnnl.gov/science/instruments-resources/experimental-design) or statistical data analysis methods.

Check the box if you want to explore opportunities to use EMSL’s new [Makerspace](https://www.emsl.pnnl.gov/science/instruments-resources/makerspace).

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| **Goal of Analysis** | [**Requested Resources**](https://www.emsl.pnnl.gov/science/instruments-resources) | **Sample Type** | **Estimated Number of Samples** |
| Identification of 13C labeled metabolites | Liquid state NMR | Soil  If other: specify | 15 |
|  |  | Choose one.  If other: specify |  |
|  |  | Choose one.  If other: specify |  |
|  |  | Choose one.  If other: specify |  |
|  |  | Choose one.  If other: specify |  |
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|  |  | Choose one.  If other: specify |  |

**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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