



INCYTE Lab Exchange Fellowship Opportunity for Early Career Scientists

Call for Proposals: INCyTE is pleased to announce a fellowship award competition for early career scientists (graduate students or postdocs). The purpose of the INCyTE fellowships is to support early career scientists from experimental labs to visit Earth system modeling (ESM) labs and vice-versa. Through these exchanges, INCyTE's goal is to provide awardees with hands-on experience in one or more of the following areas: Assisting in model analysis, including model evaluation and comparison with data; learning the analytical tools required to conduct model-observation comparisons (e.g., programming and visualization software); learning the science of model building and analysis and how to interpret results within the overall climate system. Similarly, students currently focused on modeling may propose to visit an experimental lab.

Selection criteria: INCyTE brings together two communities that historically have not interacted closely: biogeochemical experimentalists and earth system modelers. The overarching goals of INCyTE are to enhance our understanding of nutrient cycling feedbacks on the global carbon (C) cycle in general, and to integrate different investigators, data, and experimental and conceptual frameworks to improve representation of nutrient interactions and constraints on the global terrestrial C cycle in Earth System Models. Applicants must demonstrate how their proposed work aligns with these goals, and preference will be given to proposals that make clear connections between experiments and models, and especially to those that show how the proposed work will advance ongoing efforts. For more information about INCyTE, please visit: <https://www.cfc.umt.edu/research/incyte/default.php>

Responsibility for selection: Selection of fellows shall be the responsibility of the INCyTE Steering Committee (ISC). The ISC will determine recipients and award amounts.

Fellowship requirements: Fellows must commit to sharing results of their program annually with the public and other stakeholders through a report, presentation, or other mechanism as approved by the ISC. We also request that fellows acknowledge INCyTE support in any products (e.g., published papers, presentations) that result from fellowship support.

Allowable expenses: Fellowships are designed to support travel costs associated with lab exchanges/visits. This may include airfare, mileage, per diem, etc.

General award information: We anticipate up to three awards each year funded at an average of \$3,000, but larger award requests will be considered on a case-by-case basis.

Proposal Process: The following elements will be considered in the review of full proposals: 1) Relevance of the proposed work to INCyTE objectives; 2) Potential for the proposed activity to advance the goals of INCyTE; 3) The extent to which the proposed activities suggest and explore creative or original concepts; 4) The plan for carrying out the proposed activities is well-reasoned, well-organized, and based on a sound rationale; 5) Qualifications of the individual, team, or institution to conduct the proposed activities; 6) Adequate supplemental resources are available to the PI and collaborators to complete the proposed activities. Specific details on the proposal requirements and format are described below.

Full Proposal Requirements and Format

When submitting a project full proposal, please ensure that it is written in the format to include all the items below. A full proposal must contain the following sections:

- A. Cover Page (including abstract) (1 page maximum)
- B. Project Description (2 pages maximum)
- D. Project Timeline, Budget and Budget Justification (1 page maximum)
- E. References Cited
- F. Project Personnel (A 2-page CV from both the applicant and the lab host)

A. Cover Page (1-page maximum), including the following elements:

Title. The title should provide a brief description of the subject of the research that reflects the overall objectives and scope of the project.

Participant information. Provide the name and full contact information for the applicant and the lab host.

Brief budget summary. Provide a short description of funds requested and the total amount requested.

Project abstract (< 150 words). Provide a short summary of the research, including a brief description of how the research addresses the selection criteria above.

B. Project description. The project description should provide a clear, concise statement of the work to be undertaken. The project description should outline the general plan of work, including the broad design of activities, and, where appropriate, provide a clear description of experimental methods and procedures. Figures and tables are allowed in the project description within the 2-page limit. Proposers should address what they want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. In this section, please also indicate why the host lab is the appropriate place to carry out these activities, based on their resources, expertise, or ongoing work.

C. Project timeline, budget and budget justification. The project description should include a project timeline that provides an estimate of the maximum time required to complete the project and publish results. If the visit is planned to be longer than what can be reasonably supported with INCyTE funds, please identify other sources of funds. This section is not included in the 2-page limit.

E. Literature Cited. Include a list of all literature cited in the body of the project proposal. The references section is not included in the 2-page limit.

F. Project Personnel. Both the visitor (applicant) and the lab host should include a brief (2-page) curriculum vitae.

G. Letter of Support. The PI of the host lab should provide a letter of support describing their commitment to the visitor, the project goals, and their overall impressions of the proposed activity. This letter should be sent to INCyTE directly from the host (see below).

Full proposals should be formatted as a single .pdf file and submitted via email to Dr. Emma Hauser at the University of Montana (emma.hauser@mso.umt.edu). Applications received before March 31, 2022 will be given priority, but applications may be considered on a rolling basis as funding allows.