

## Research Project Proposal Guidelines

GlycoMIP research proposals are **uploaded as a single PDF file**, and must include the following:

**Project Title and GlycoMIP Project ID**

**PI/Co-PI Name(s)**

**GlycoMIP Project Advocate Name**

**Submission Date**

### Section I: Project Summary (1-2 pages)

1. Project Overview and Goals (Provide brief overview of the project)
  - a. Provide concise motivation for the proposed work
  - b. Describe desired outcomes (goals), and indicate what new knowledge or products may be generated
2. Relevant to glycomaterial synthesis, characterization, modeling and/or automation, describe the extent to which the proposed research activities advance the following:
  - a. Tools and methods,
  - b. Knowledge,
  - c. Technologies, and/or
  - d. Training of next-generation researchers
3. Intellectual Merit. Describe the potential for project to advance knowledge and understanding within the glycomaterials community or across related fields.
4. Broader Impacts. Describe how project is expected to benefit society or advance desired societal outcomes, including:
  - a. What outcomes are to be shared with GlycoMIP community (non-proprietary projects only)
  - b. What material(s), data or model(s) are to be added to the GlycoMIP databases (non-proprietary projects only)
  - c. Briefly describe any planned collaborations within and outside of GlycoMIP related to this project
5. (For In-House Research ONLY) Specify the GlycoMIP Specific Research Objectives (SRO) addressed in this proposal. Current SRO's are available through the Restricted page of the website ([glycomip.org](http://glycomip.org)).

### Section II: Research Plan (1-2 pages)

1. User Research Team (List of team members and project roles)
  - a. Identify team members who are expected to travel to user facility
2. Background (Include hypothesis and/or preliminary data, as appropriate)
3. Approach and Proposed Activities
  - a. Describe the scientific approach to be employed for each proposed activity
  - b. Explain the need for use of the GlycoMIP user facility



- c. List the Project Milestones and anticipated Milestone Durations (in months) in a table format.
4. Describe Research Activities to be Performed Elsewhere.
  - a. What activities will occur at your home institution?
  - b. What activities will occur at other institutions or laboratories?

**Section III: References** (no page limit)

**Section IV: PI/Co-PI Biosketch(es)** (in NSF format)

NSF Instructions: [U.S. NSF – About Biographical Sketch](#); Template: [NSF Biosketch 20-1](#)

**Proposal Review Process and Criteria**

All research proposals will be reviewed for feasibility and written feedback provided to the PI.

External proposals (research outside of GlycoMIP's *In-House Research Program*) will be reviewed by the *GlycoMIP Reviewer Committee* comprising representatives from academia, industry and/or national user facilities, and appointed on the basis of their scientific and technological expertise. Review criteria will include:

- Research feasibility
- How results may advance tools or methods development, knowledge, technologies and/or the training of next-generation researchers
- Intellectual merit
- Broader impacts
- Availability of GlycoMIP resources to conduct the research (instrument or tool use, personnel time, scheduling)

GlycoMIP In-House Research proposals will be reviewed by the GlycoMIP Leadership Team, under the guidance of the assigned project advocate. Additional review criteria will include the support of GlycoMIP's in-house research goals.