

GUIDELINES FOR PROPOSALS
Biomolecular Interaction Technologies Center
www.bitc.unh.edu

Objective:

Research proposals should deal with methods based preferably on first principles that can be used to quantitate the binding interaction between molecular species, specifically protein-protein interactions (including monoclonal antibodies), protein-nucleic acid interactions, small molecule drug-protein interactions and drug-lipid interactions. The development of new instruments or methods, or the refinement of existing equipment or techniques, will be considered. The objective should be the use of the instrument or method on a routine basis for either molecular screening or as an analytical technique in research relevant to drug discovery or development.

Areas of interest: 1) high-throughput binding assays; 2) more robust software for data acquisition analysis; and 3) improved methods for characterizing binding of membrane proteins.

Technologies of particular interest to pharmaceutical researchers include but are not restricted to: atomic force microscopy, fluorescence spectroscopy, total internal reflection fluorescence spectroscopy, high throughput calorimetry, surface plasmon resonance, coupled wavelength plasmon resonance, analytical electrophoresis, analytical ultracentrifugation, light scattering, circular dichroism, mass spectrometry, and nuclear magnetic resonance spectroscopy.

Deadline:

Preproposal: Nov. 1. Full proposal (if invited): April 1. Submit via email to: bitc.unh@unh.edu

Eligibility, funding level, cost sharing

Researchers at academic institutions are eligible to apply. Awards range from \$15,000 to \$50,000 USD per year; project duration is typically two years. Researchers are encouraged to cite BITC support in proposals for funding from other sources, to use BITC funds to leverage grants and other funding opportunities, to support a portion of an instrument development project, or to support a graduate student or postdoctoral appointment. Institution fees are held at 10% at the request of the NSF IUCRC program.

Format: Preproposal (1-2 pages, 1" margins, 10 pt type minimum)

Deadline Nov. 1

Brief summary should include:

- Topic, name of PI and institution in 2-line title.
- Research problem (background, methods, expected results).
- Figures or graphs as needed (embedded is acceptable if they convert to PDF).
- Most relevant citations.
- Qualifications of PI for this project.
- List other personnel.
- Estimated annual budget: Salaries and benefits, student stipend or tuition, supplies, travel (one meeting), F&A at 10% (see above).
- Duration of project.
- Total requested.

Attach abbreviated CV or biosketch of PI.

Format: Proposal

Deadline April 1 (following acceptance of preproposal)

- Follow preproposal format. No limit on length; most are 5 pages or under.
- Topic, name of PI and institution in 2-line title.
- Expanded discussion of research question, with figures, data, citations.
- Milestones.
- Deliverables for BITC (e.g. exclusive rights for specified period, or use of prototype instrument in a shared facility, or publication listing BITC support).
- Qualifications of PI.
- List other personnel.
- Estimated annual budget: Salaries and benefits, student stipend or tuition, supplies, travel (one meeting), F&A at 10% (see above).
- Duration of project.
- Total requested.

Reporting requirements:

Varies, according to topic and duration of project. Typically, the PI should expect to file a brief written progress report after the first 6-12 months, and give a presentation at a meeting of the BITC Industrial Advisory Board before the project has been completed, or at any time at the request of the board or director. Meetings are held in January and July. Advance notice is expected if there is a delay in meeting milestones. The PI may be asked to answer additional questions. Students working on the project may be asked to present a poster.

For more information, contact:

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