

<p>Beamline Title and Three-Letter Acronym (XYZ)</p> <p>Name A. Names (Spokesperson for Type I, Beamline Project Director for Type II): Professor of AAA, ABC University, Any Town, NY. Telephone. Email@email.edu.</p> <p>Name B. Names: Professor of BBB, XYZ Institute, Home Town, NY. Telephone. Email@xyz.edu.</p> <p>Include all current proposal team members</p>

A. Science Case

A succinct statement of the scientific case for the beamline, including a description of the key scientific questions the beamline will address, the capabilities that establishing such a beamline at NSLS-II will provide and whether any of these would be unique, and how these would impact the field and the community. If the beamline is being proposed as part of a suite of beamlines, indicate the role and importance of the proposed beamline in the context of the suite and the impact if the proposed beamline is not approved.

B. Beamline Concept & Feasibility

Description of the pre-conceptual layout of the proposed beamline (no CAD drawings needed, and schematic by PowerPoint sufficient), including technical requirements and specifications and justification for why these are necessary to address the intended scientific mission. These should span from the radiation source to the endstation(s). Describe any special source parameter requirements such as pulse length, repetition rate, coherence, stability, etc. For insertion devices, indicate preferred type of straight section (high or low beta). For bending magnet ports, indicate the required type of sources - standard bend magnet, 3-pole wiggler, or infrared. Include a summary of the expected performance and feasibility with emphasis on the appropriate utilization of NSLS-II.

C. Required Technical Advances (if any)

A description of any technical advances required for the proposed beamline to achieve the level of performance required by the proposal.

D. User Community and Demands

Evidence of user demand for the capabilities to be provided by the beamline. This could include, but is not limited to, evidence from historical usage of similar beamlines at other facilities, user workshops held, white papers written, etc. An optional appendix (not included in the page count) containing a list of supporters and potential users may be attached to the Beamline Development Proposal.

E. Proposal Team Expertise and Experience

Describe the expertise and experience of each Proposal Team member. Include an appendix (not included in page count) with a one page bio for each Proposal Team member including publication references.

F. Suggestions for BAT Membership

(not included in page count; Type I proposals) Optionally include suggestions of individuals who are willing to serve as Beamline Advisory Team (BAT) members for the proposed beamline (in addition to the proposal spokesperson). Nominees for BAT membership must have agreed to serve if asked and may include, but are not limited to, the Proposal Team members. If the proposal is approved, the proposal spokesperson is expected to work with the NSLS-II Experimental Facilities Director in forming the beamline BAT, and to serve on the BAT and represent the interests of the proposal team if the Beamline Project Execution Plan is approved. Full contact information should be provided for each nominee.

G. Funding and Management

(not included in page count; Type II proposals) A succinct statement of plans for seeking funding and a succinct description of approach for managing the beamline development.