

**Short Proposal Form  
Solution Phase Chemistry / Biochemistry**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Proposal information** | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| **Proposal type** | | Select... | | | | | | | | | | |
|  | | *For more information regarding the different proposal types, visit:* [*https://lcls.slac.stanford.edu/proposals/modes-of-access*](https://lcls.slac.stanford.edu/proposals/modes-of-access) | | | | | | | | | | |
|  | | | | | | | | | | | | |
| **Descriptive experiment title** | | |  | | | | | | | | | |
|  | | | This title *will be made public* if you are awarded beamtime. Maximum of 150 characters. | | | | | | | | | |
|  | | | | | | | | | | | | |
| **Is this experiment related to one or more LCLS proposals that have been previously submitted or accepted?** | | | | | | | |  | | | | |
| Select... | | | | |
|  | | | | | | | | | | | | |
| → If previously accepted, list experiment number(s): | | | | | | | |  | | | | |
|  | | | | | | | | | | | | |
| **Spokesperson** | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | | | |  |  | | | |  |  | | |
| Name | | | | | Institute | | | | | E-mail address | | |
|  | | | | | | | | | | | | |
| **Experimental team** | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| 1 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Description of relevant previous experience (e.g., data collection at a synchrotron) | | | | | | | | | | | |
| 2 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 3 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 4 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 5 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 6 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 7 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
| 8 |  | | | | |  |  | | | |  | Select... |
|  | Name | | | | | | Institute | | | | | Main experimental role |
|  |  | | | | | | | | | | | |
|  | Relevant previous experience | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | The experimental team has more than 8 team members. | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | We need help from LCLS staff for data analysis. | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scientific case** | | | | | | | | | | |
|  | | | | | | | | | | |
| **Briefly explain the scientific significance or importance of the proposed experiment. Also provide a brief justification that significant new results are likely from a limited number of shifts.** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | | | | | | | | | |
| Avoid broad discussion. Maximum of 3500 characters (including references, if applicable). | | | | | | | | | | |
|  | | | | | | | | | | |
| **Specific aims and questions to be answered** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | | | | | | | | | |
| Maximum of 500 characters. | | | | | | | | | | |
|  | | | | | | | | | | |
| **Why is LCLS required for this experiment? Why now?** | | | | | | | | | | **Supportive figure (optional)** |
|  | | | | | | | | | | |
|  | | | | | | | | | | A white square with a blue border  Description automatically generated |
| *Maximum of 500 characters.* | | | | | | | | | |  |
| **Experimental details** | | | | | | | | | | |
|  | | | | | | | | | | |
| **Sample description (name and metal concentration for all proposed samples)** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | | | | | | | | | |
| **Preferred sample delivery method(s)** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | Round Rayleigh jet (minimum sample volume: 50 ml) | | | | | | | | | |
|  | | | | | | | | | | |
|  | → Preferred diameter (50 – 200 µm): | | | | | |  | | | |
|  | | | | | | | | | | |
|  | Flat sheet jet (minimum sample volume: 200 ml) | | | | | | | | | |
|  | | | | | | | | | | |
|  | → Preferred thickness (10 – 50 µm): | | | | | |  | | | |
|  | | | | | | | | | | |
|  | I’m not sure | | | | | | | | | |
|  | | | | | | | | | | |
|  | Other sample delivery method: | | | | |  | | | | |
|  | | | | | | | | | | |
| **Preferred experimental method** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | Scattering | | | | | | | | | |
|  | | | | | | | | | | |
|  | **→** Q priority: | | Select... | | | | | | | |
|  | | | | | | | | | | |
|  | Spectroscopy: | | | Select... | | | | | | |
|  | | | | | | | | | | |
|  | → Emission line (XES only): | | | | | Select... | | | | |
|  | | | | | | | | | | |
|  | → XANES spectrum 3d TM element (XAS only): | | | | | | | |  | |
|  | | | | | | | | | | |
| **X-ray parameters** | | | | | | | | | | |
|  | | | | | | | | | | |
| X-ray energy (keV): | | | |  | | | | | | |
|  | | | | | | | | | | |
| Preferred X-ray focal spot size (2 – 100 µm): | | | | | | | |  | | |
|  | | | | | | | | | | |
| X-ray bandwidth: | | | | Select... | | | | | | |
|  | | | | | | | | | | |
| **Optical beam parameters** | | | | | | | | | | |
|  | | | | | | | | | | |
| Wavelength: | | Select... | | | | | | | | |
|  | | | | | | | | | | |
| → If visible OPA, specify wavelength (nm): | | | | | | |  | | | |
|  | | | | | | | | | | |
| Polarization control: | | | | | Select... | | | | | |
|  | | | | | | | | | | |
| Optical beams are offered with a colinear geometry, 0.1 – 30 µJ, 50 fs FWHM, 100x100 µm2 FWHM. | | | | | | | | | | |
|  | | | | | | | | | | |
| **Comments** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | | | | | | | | | |