

**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** |
|  |
|       |