**Solid State and Elemental Analysis Unit: Crystallography Investigation**

Please email this form to [m.bhadbhade@unsw.edu.au](mailto:m.bhadbhade@unsw.edu.au), or bring a printed copy to Dr Mohan Bhadbhade in the X-Ray Diffraction Laboratory (F10:M68) with your crystals.

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| **User Information** | | | | **Supervisor Information** | | | |
| Surname | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Name | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Given Name | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Signature | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Work phone | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | School/Organisation | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Mobile | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Phone Number | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Student/Staff Number | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Fax Number | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Email | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Email | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| School/Organisation | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |  | |  | |
| Select User Type: | *Undergraduate* | | | *Postgraduate* | | *Postdoctoral* | |
|  | *Research Fellow* | | | *Visiting Fellow* | | *Academic Staff* | |
|  | *General Staff* | | | *External User* | |  | |
| **Account Details** | | **Dept ID** | **Fund** | | **Budget Period** | | **Project/Grant** |
| (Example entry) | | MATSC&EN | RExxx | | 200x | | RMO/PS |
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| **Sample Information** |  |
| Date Submitted: | \_\_\_\_ / \_\_\_\_ / \_\_\_\_ |
| Your Reference for this Compound: |  |
| Proposed Empirical Formula |  |
| Techniques used to support structure  eg NMR, MS, Elemental Analysis: |  |
| Location of Sample (eg fridge, M68, G65): |  |
| Solvent(s) Used during preparation/crystallisation: |  |
| Are the Crystals Air-Sensitive: | Y / N |
| **Note: samples are retained for a maximum of 2 months** |  |

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| **Services** |  |
| **Data Only**  Collection of processed data at 150K – user must solve and refine. | Y / N |
| **Standard Service\***  Data collection at 150K, complete refined structure plus authenticated CIF for publication | Y / N |
| **Standard Service plus Full Structural analysis\***  Analysis of final structure, eg evaluation of interactions within the crystal | Y / N |
| **Specialised experiment**, eg. variable temperature  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| **Other considerations**, eg. stereochemistry required?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| \*Co-authorship is assumed for these services, however you are welcome to discuss the issue of co-authorship and collaboration with the Crystallographer and the SSEAU Manager at any time. |  |

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| **Drawing of Proposed Structure and/or Precursors (or attach printed image to this form)** |
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| **Scientific Officer use only** |  |
| **Job Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Date Received: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Crystals Suitable** | Y / N |
| **Date of Unit Cell Investigation** | \_\_\_\_ / \_\_\_\_ / \_\_\_\_ |
| **Proceed to Data Collection?**  **Unable to proceed?**  Problem:  Date and method to inform user of problem: | Y / N  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_ / \_\_\_\_ / \_\_\_\_  email / phone / meeting |
| **Start Date for Solution** | \_\_\_\_ / \_\_\_\_ / \_\_\_\_ |
| **Proceed to Refinement?**  **Unable to proceed?**  Problem:  Date and method to inform user of problem: | Y / N  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_ / \_\_\_\_ / \_\_\_\_  email / phone / meeting |
| **Refinement Completed**  **Unable to proceed?**  Problem:  Date and method to inform user of problem: | Y / N  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_ / \_\_\_\_ / \_\_\_\_  email / phone / meeting |
| **Special efforts required in the structure analysis** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Data**  Drawings,Tables, Dimensions Coordinates Structure Factors, Details of analysis for publication.  Date and method to supply data to user: | \_\_\_\_ / \_\_\_\_ / \_\_\_\_  email / phone / meeting |