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

Please email this form to 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 structureeg 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 |