# Research Projects – CSOF3

Role summary for potential applicants

|  |  |
| --- | --- |
| Advertised Job Title**:** | Research Technician - Cold Spray |
| Reference Number**:** | 58819 |
| Classification**:** | CSOF3 |
| Salary Range: | AU $62,654 to AU $79,741 plus up to 15.4% superannuation |
| Location**:** | Clayton, VIC |
| Tenure: | 3 years |
| Relocation assistance**:** | Will be provided to the successful candidate if required. |
| Applications are open to: | Australian/New Zealand Citizens and Australian Permanent Residents Only |
| Functional Area**:** | Research Projects |
| % Client Focus - Internal: | 30% |
| % Client Focus - External: | 70% |
| Reports to the: | Deposition and Additive Structures Team Leader |
| Number of Direct Reports: | 0 |

|  |
| --- |
| **Role Overview:** |
| Working as part of the CSIRO Deposition and Additive Structures Team, the role of Research Technician - Cold Spray will be to conduct mechanical testing as well as sample polishing on client projects. The role will also focus on the maintenance of the cold spray laboratory, metallography labs and other lab areas to ensure that they are in serviceable and safe condition. The role also requires the writing of preventive maintenance schedules for the safe operation of laboratory equipment.  |

|  |
| --- |
| **Duties and Key Result Areas:** |
| * Carry out scientific activities involving Cold Spray and materials testing
* Ascertain the physical and mechanical properties of materials using hardness, density, surface roughness measurements, tensile testing, fatigue testing and adhesion testing
* Perform metallographic sample preparation, powder sampling and measurement
* Maintain and develop the safe operation of key laboratory equipment in the Cold Spray, adhesion testing and powder storage areas
* Develop robot programs
* Design and/or make fixtures for holding samples
* Work as part of a multi-disciplinary, research team, to carry out tasks under limited direction in support of scientific research.
* Work collaboratively with colleagues within your team, the business unit and across CSIRO, to reach objectives.
* Provide instruction on activities pertaining to the immediate work area and responsibilities, as required.
* Communicate effectively and respectfully with all staff, clients and suppliers in the interests of good business practice, collaboration and enhancement of CSIRO’s reputation.
* Adapt and/or develop original experimental methods or equipmentin support of existing and further research.
* Adhere to the spirit and practice of CSIRO’s Values, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals.
* Other duties as directed.
 |

|  |
| --- |
| **Selection Criteria:** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed****Pre-Requisites:***1. **Education/Qualifications:** Relevant Bachelors/Masters Degree or equivalent experience in Mechanical or Materials Engineering or Metallurgy
2. **Communication:** Ability to communicate in a fluent and courteous manner, both orally and in writing, offering factual information supported by proven data, and providing appropriate feedback when required.
3. **Behaviours:** A history of professional and respectful behaviours and attitudes in a collaborative environment.
4. **Adaptability:** The ability to effectively manage a number of competing priorities simultaneously, and carry out non-routine tasks under limited direction.
5. **Problem Solving:** Proven ability to investigate underlying issues of complex and ill-defined problems and develop appropriate responses by adapting/creating and testing alternative solutions**.**

***Essential Criteria:***1. Training or experience in materials testing techniques
2. Good mechanical aptitude
3. The ability to work effectively as part of a multi-disciplinary, regionally dispersed research team, and carry out tasks under general direction from Scientific Researchers.
4. The ability & willingness to contribute novel ideas and approaches in support of scientific investigations.

***Desirable Criteria:***1. Experience in robot programming

**CSIRO Values:****As Australia’s Innovation Catalyst, CSIRO has strategic actions underpinned by behaviours aligned to**:* Excellent science
* Inclusion, trust & respect
* Health, safety & environment
* Delivery on commitments.

**In your application and at interview you will need to demonstrate alignment with these behaviours.** |
| **Other Information:** |
| **How to Apply**Please apply for this position online at <https://jobs.csiro.au/> and enter requisition number **58819**. Internal applicants please apply via ‘Jobs Central’ in SAP (click ‘Recruitment’) Your application should comprise **one document** which incorporates the latest version of your CV plus a covering letter and addressing the selection criteria.  If you experience difficulties applying online call 1300 984 220 for assistance. Outside Australian business hours please email: csiro-careers@csiro.au. **Contact:** If after reading the selection documentation you require further information please contact: Dr Peter King via email: Peter.King@csiro.au or phone: **+61 401 390 416**Please do not email your application directly to Dr King. Applications received via this method will not be considered.**About CSIRO**Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! [www.csiro.au](http://www.csiro.au). We work flexibly at CSIRO, offering a range of options for how, when and where you work. Talk to us about how this role could be flexible for you. Find out more! [CSIRO Balance](https://www.csiro.au/en/Careers/A-great-place-to-work/Work-life-balance) **CSIRO Manufacturing** This Business Unit delivers scientific and engineering innovations to transition Australian manufacturing, creating the jobs of the future, export growth and increasing the value of the sector. |