# Position Details

## Research Scientist/Engineer- CSOF5

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| The following information is for applicants | |
| Advertised Job Title | Research Scientist - Business Processes and Legal Informatics |
| Job Reference | 64486 |
| Tenure | Indefinite  Full-time |
| Salary Range | AU$98,735 to AU$106,848 pa (pro-rata for part-time) + up to 15.4% superannuation |
| Location(s) | Dutton Park, QLD |
| Relocation Assistance | Will be provided to the successful candidate if required |
| Applications are open to | All Candidates |
| Position reports to the | Team Leader |
| Client Focus – Internal | 50% |
| Client Focus – External | 50% |
| Number of Direct Reports | 0 |
| Enquire about this job | Contact Dr. Nick van Beest via email at: [nick.vanbeest@data61.csiro.au](mailto:nick.vanbeest@data61.csiro.au) |
| How to apply | Please apply via **Jobs Central**  If you experience difficulties when applying, please email [careers.online@csiro.au](mailto:careers.online@csiro.au) or call 1300 984 220. |

### Role Overview

The role of Research Scientist Staff in CSIRO is to conduct innovative research leading to scientific achievements that are aligned with CSIRO’s strategies. You may be engaged in scientific activity ranging from fundamental research to the investigation of specific industry or community problems. You will have the opportunity to build and maintain networks, play a lead role in securing project funds, provide scientific leadership and pursue new ideas and approaches that create new concepts.

The Research Scientist in Business Processes and Legal Informatics will work alongside our world-leading scientists within our Software Systems group. This role will provide scientific leadership and develop and pursue research agendas within the context of our vision to build conceptually sound and computationally feasible advanced formal models of business processes and legal reasoning. This will aim to not only improve the access to justice, but to speed up and reduce the cost of legal proceedings, as well as increase the productivity by reducing the burden of complying with governing norms.

### Duties and Key Result Areas:

* Pursue research to advance the state of the art in digital legislation and business process compliance
* Produce high quality scientific and/or engineering papers suitable for publication in high quality international conferences and journals
* Work effectively as part of a multi-disciplinary research team, to undertake independent scientific investigations and carry out associated tasks under the guidance of more senior Research Scientists/Engineers
* Assist in leading research projects
* Provide coaching and on-the-job training to technical staff and students
* Adhere to the spirit and practice of CSIRO’s Code of Conduct, Health, Safety and Environment plans and policies, Diversity initiatives and Zero Harm goals
* Other duties as directed.

## **Required Competencies:**

* **Teamwork and Collaboration:** Cooperates with others to achieve organisational objectives and may share team resources in order to do this. Collaborates with other teams as well as industry colleagues.
* **Influence and Communication:** Uses knowledge of other party's priorities and adapts presentations or discussions to appeal to the interests and level of the audience. Anticipates and prepares for others reactions.
* **Resource Management/Leadership:** Allocates activities, directs tasks and manages resources to meet objectives. Provides coaching and on the job training, recognises and supports staff achievements and fosters open communication in the team.
* **Judgement and Problem Solving:** Investigates underlying issues of complex and ill-defined problems and develops appropriate response by adapting/creating and testing alternative solutions.
* **Independence:** Plans, sets and works to meet challenging standards and goals for self and/or others. Recognises where endeavours will make the most impact or difference, decides on desired outcome and sets realistic goals to reach this target.
* **Adaptability:**Copes with ambiguity or situations that lack clarity. Adapts readily to changing circumstances and new responsibilities (which may include activities outside own preferences) in the interests of achieving team objectives. Recognises the need for and undertakes personal development as a result of changes.

## **Selection Criteria**

#### Essential

*Under CSIRO policy only those who meet all essential criteria can be appointed.*

1. A doctorate in Computer Science, or related discipline
2. A track record of publications in top Information Systems and Computational Logics journals
3. Excellent written and oral communication skills including the ability to publish research results, prepare reports and present the results of scientific investigations at international conferences and stakeholder meetings, evidenced by a solid record of publication in top-tier conference proceedings
4. Extensive knowledge of formal business process modelling (like e.g. Petri nets), formal verification and compliance
5. Strong track record in knowledge representation, non-monotonic reasoning and deontic logics
6. Previous experience modelling legislation in languages such as LegalRuleML, RuleML etc
7. Experience with digital implementation of laws and regulations at the Australian Government.

## **Desirable:**

1. Knowledge and previous research of Multi-Agent Systems
2. Experience with organising and chairing conferences
3. Experience with supervision of (PhD) students
4. Software development skills.

Special Requirements

Appointment to this role is subject to the following condition:

* The successful candidate will be asked to obtain and provide evidence of a National Police Check or equivalent. Please note that people with criminal records are not automatically deemed ineligible. Each application will be considered on its merits.

## **About Data61:**

Find out more about [Data61](http://www.data61.csiro.au/)