**Senior Principal Research Scientist**

Energy Lead ADS Data61

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| **Role Title:** | Energy Lead |
| **Classification:** | CSOF 8+ (specified term of 3 years) |
| Reference Number**:** | 84779 |
| Salary Range: | AU $141,949K to AU $212,658 plus up to 15.4% superannuation |
| Location**:** | Negotiable |
| Relocation assistance**:** |  |
| Applications are open to: | * Australian Citizen or PR |
| **Functional Area:** | Research Science, Research Engineering |
| **Internal Focus:** | 60% |
| **External Focus:** | 40% |
| **Reports to:** | Group Leader |
| **Direct Reports:** | Team of 3-4 to be established |

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| **Role Purpose** |
| As a Science Lead in Data61, this role will design and lead a Digital Energy strategy for Data61. Among other stakeholders, you will be working alongside science leaders from the CSIRO Energy Business Unit. Building strong collaborative relationships, both internally and with energy sector participants including research, regulation and policy sectors, to enable suitable AI technologies to be developed and deployed, will be a key part of this role.  The Digital Energy strategy itself will also consider the development of a sustainable Digital Energy research capability within Data61, with its own research agenda complementary to work within the Energy Business Unit. The Science Lead will form a team within the Optimisation and Financial Risk / Data in the Real World research group within the Analytics and Decision Sciences Program. They will also be responsible for oversight of all projects where Data61 delivers to the Energy Business unit, ensuring quality and continued development of novel digital methods.  The candidate will have existing recognition in the Energy sector, whether academic or in industry, with a sustained record of achievement delivering, through vision and influence, world-leading developments that have a whole of industry impact. |

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| **Key Result Areas** |
| The Energy lead will identify emerging research and economic issues and plan and implement research in anticipation of international scientific/economic/ environmental change. They will use their broad scientific or sectoral knowledge, vision and influence to deliver strategic research outcomes of importance to science, the economy, society and/or the environment aligned with Business Unit objectives.  They may participate in, and manage, multi-organisation research projects requiring interaction with researchers and officials from other countries. They establish and lead research networks that engage leading scientists from other organisations in addressing issues of national or global importance to influence key decision-makers.  They may be members of editorial boards of scientific journals and supervise a number of students. |
| **Capabilities** |
| Competencies  1. **Teamwork and Collaboration:** Creates and fosters an environment in which there is a high level of cooperation within and between teams. Facilitates positive team relationships to build interactions across Business Units and the organisation. 2. **Influence and Communication:** Identifies critical stakeholders and influences them via an influential third party, for example through an established network, to gain support for sometimes contentious proposals / ideas**.** 3. **Resource Management/Leadership: Contributes to or defines Business Unit / organisational policy directions, strategic planning and operationalises the vision for staff and gains commitment to the direction chosen. Plans, seeks, allocates resources and monitors to achieve outcomes. Adopts a mentor role.** 4. **Judgement and Problem Solving:** Resolves major conceptual scientific, technical, commercial or management problems, which have a significant impact upon the field of research, professional function, the Business Unit or the Organisation. Situations faced have little or no precedent and require original concepts and approaches. 5. **Independence: Commits significant resources in the face of uncertainty and takes calculated risks to improve performance and achieve challenging goals. Uses personal energy to drive change strategies. Formulates and implements contingency plans to minimise the impact of potential risks. Accepts personal responsibility for the outcomes of decision/risks taken.** 6. **Adaptability:** Is flexible in response to external change or when faced with external constraints. Identifies and promotes the opportunities arising as a result of change.   **Experience**   * Reputation in the Energy Sector in Australia (academic or industry) and experience or recognised contributions to a large research or technology program. * Involved with large multi-disciplinary teams across a science or technology area; * Created and/or maintained strategic alliances; * Implemented and developed research-related activities fully aligned with strategy; * Successful track record in science or technology-related project delivery; |

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| **Selection Assessment** |
| *Under CSIRO policy only those who meet all essential criteria can be appointed*  **Pre-Requisites:**   * **Education/Qualifications:** A doctorate in a relevant discipline area or a world leader in a significant area in industry * **Communication:** Evidence of strong engagement skills and strategic relationship management. * **Behaviours:** Values and behaviours are exemplary, and actively promote collaboration.   **Essential Criteria:**   * Original contribution to science and/or engineering resulting in a significant influence on a field of research and/or its transfer to industry/community in the Australian Energy sector * Portfolio and funding base expanded, with project delivery outcomes within the agreed timeframe and budget allocation. * Collaborations including research beneficial to project goals and productive relationships with clients and industry consultancies.   **You will need to demonstrate behaviours aligned to the CSIRO Code of Conduct.** |