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ERI Team

Energy Resources Institute

eri@cdu.edu.au

Subject: EOI for Internship/Work Placement

Dear ERI Team,

I am writing to express my keen interest in the internship/work placement program at the Energy Resources Institute (ERI). As a final-year Master of Data Science student at Charles Darwin University with a strong background in data engineering, Python programming, and data visualization, I am eager to apply my skills to real-world challenges in energy resource management, predictive analysis, and asset optimization.

Throughout my academic and professional journey, I have developed expertise in:

- **Python and Data Analytics:** Implemented ETL pipelines, dynamic report generation tools, and domain-specific chatbots, leveraging **Python** and AWS.
- **Data Visualization:** Created dashboards in **Tableau** and Power BI to derive actionable insights for stakeholders.
- **Real-time Monitoring & Predictive Analysis:** Applied machine learning and AI techniques during my Artificial Intelligence Fellowship, focusing on computer vision and natural language processing.
- **Project Management:** Led teams using Agile/SCRUM methodologies, ensuring timely delivery of projects such as a medical report generation tool for a US-based client.

The ERI's focus on water quality monitoring, predictive analysis, and asset management aligns perfectly with my passion for data-driven solutions. My experience in collaborative projects, combined with my technical training in AI and data science, equips me to contribute meaningfully to your initiatives.

I am particularly excited about the opportunity to work on governance, risk, and compliance frameworks or real-time monitoring systems, where my skills in Python, Tableau, and predictive modelling can add value. My adaptability and proactive approach, evidenced by my roles at Genese Solutions, Code Rush, and volunteer leadership in IT, further underscore my readiness for this internship.

Attached is my CV, which provides further details about my qualifications. I would welcome the chance to discuss how my background aligns with your needs. Thank you for your time and consideration, I look forward to the possibility of contributing to your team.

Best regards,
Rohan Chhetry