



Annexure A

Position: Research Engineer (Verification Engineer)
Theme: Embedded Systems
Project: ERTOS-2
Location: NRL
Supervisor:

Position Profile:

Contribute to the research activity at NICTA in the Trustworthy Embedded Systems project in alignment with NICTA's objectives, including research, and commercialisation, education and linkages.

Accountability and Associated Responsibilities:

- Contribute to the team's research activity,
- Support the team to achieve the highest international standards of research,
- Develop formal models and machine-checked proofs,
- Design, programming and testing of software,
- Develop project documentation and write reports on evaluations;
- Contribute to publications;
- Maintain high ethical and performance standards.

Essential Requirements:

- Degree qualification in Computer Science, or related discipline; or close to degree
- Knowledge of C, functional (ML/Haskell) and assembler programming languages, formal methods and logic, operating systems, and UNIX;
- Experience in formal modelling and proof, preferable with theorem proving tools like Isabelle/HOL;
- Highly self-motivated and willing to learn new technology,
- Commitment to ethical and professional standards,
- Good communication skills, both oral and written;
- Understanding of EEO and OH&S principles and willingness to comply with them.

Desirable Requirements:

- Software and hardware experience,
- Experience with low-level systems programming and strong C programming skills;
- Thorough understanding of OS design and implementation issues;
- Research achievements related to the team's research area,
- Industry research and development experience or success at research interactions with industry.