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Rio Tinto PhD Scholarship in Mining Automation, University of Sydney, Australia

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The Australian Centre for Field Robotics (ACFR) is based in the School of [Aerospace, Mechanical and Mechatronic Engineering](#) at The [University of Sydney](#), and is dedicated to the research, [development](#), application and dissemination of autonomous and intelligent robots and systems for operation in outdoor environments. The ACFR is one of the largest robotics research institutes in the world and has been instrumental in developing breakthrough technologies and in conducting world-leading research and development of field robotics principles and systems. Mining constitutes the backbone of the Australian economy. While several job sectors have experienced a decline in recent times, the demand for qualified people in the mining industry remains strong.

[Rio Tinto](#) is a world leader in mining and has an extremely strong presence in [Australia](#). Rio Tinto has also been at the forefront of mining innovation. The [Rio Tinto Centre for Mine Automation \(RTCMA\)](#), established within the ACFR is mandated with the task of automating all aspects of a mine's operations. A significant component of the RTCMA's activities involves innovating new ideas and concepts that are relevant to the overall objective. The RTCMA invites applications from interested students to be a part of this mining innovation [endeavour](#) by working with us towards a doctorate degree. Your scientific contributions are intended to change the shape of Australian Mining and will create enormous impact for Rio Tinto and Australian Mining (potentially valued in millions of A\$). You will have access to unprecedented resources towards realising your scientific objectives.

Eligibility:

Essential requirements:

- A Bachelor Degree with First Class Honours or equivalent results;
- Excellent mathematical skills and/or programming skills (Matlab and/or C++)
- Open to learning new techniques and approaches including machine learning and multivariate analysis.
- Desirable requirements:
- Prior knowledge of areas such as machine learning, [statistics](#) and geology

These positions are open to domestic and [international](#) students. Rio Tinto Centre for Mine Automation scholarships are potentially available to exceptional students.

Amount awarded:

Top-up scholarships valued at approx. \$5,000 are available to successful APA and IPRS scholarship applicants. The total scholarship is valued at \$28,715 (2012 rate) per annum (tax exempt) and may be renewed for up to three years, subject to satisfactory progress.

Application guide:

Expressions of interest should be sent to Ms Lisa Hunter-Smith, Australian Centre for Field Robotics, The Rose Street Building (J04), The University of Sydney NSW 2006. Tel: (02) 9351 7126, Fax: (02) 9351 7474, email: lisa.huntersmith@sydney.edu.au and should include a CV and academic transcripts.

Closing date: 31 December 2012

For more information please visit our website: <http://scholarshipsbank.com/rio-tinto-phd-scholarship-in-mining-automation-university-of-sydney-australia/>

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