Please contact Dr Liming Zhu for the internal supervisors. Contact information is provided at the end of the topics (Page2).

**AJAX-based Process and Service Mashup**

AJAX and mashup technologies have contributed significantly to the success of many highly interactive Web 2.0 applications ranging from Google Apps to social networks. However, existing the mashup technologies focus on "data" mashup rather than composing process-intensive applications. This project looks into the state-of-art Web technologies, for example Computational REST (REpresentational State Transfer) and Goolge Chrome OS (Web OS). The students will design and build a prototype using REST frameworks and some mashup libraries to support business process mashups. The student will have the opportunity to work on the latest in-browser technologies and mobile devices (Google Android or iPhone) to create AJAX-based process engines for both desktop and mobile browsers. Students will work closely with researchers at National ICT Australia in a very friendly team environment. The project is suitable for students interested in web technologies and mobile programming. For more information, please email: Liming Zhu limingz@cse.unsw.edu.au or visit [http://www.nicta.com.au/research/projects/business_adaptation_and_interoperation/business_process_mashup](http://www.nicta.com.au/research/projects/business_adaptation_and_interoperation/business_process_mashup)

**Service Oriented Architecture for e-Business Standards**

Industry consortiums have been developing e-Business standards using XML and business process modeling. Such standards inevitably have to be mapped on to technology layers such as service-oriented and event-driven infrastructures. Deriving a flexible reference architecture and implementation from e-Business standards are not always straightforward. It involves multiple technical and not-technical factors and design trade-offs. This project will guide students to look into the state-of-art in e-Business standards, web service protocol stacks and service coordination mechanisms. Students will work with one of Australia’s leading e-Business standardization body to solve real-world problems by inventing methods and implementing prototypes. The work will contribute to the standardization body directly. Students will work closely with researchers at National ICT Australia in a very friendly team environment. Suitable for students interested in software design, web services and industry-scale development. For more information, please email: Liming Zhu limingz@cse.unsw.edu.au. References [http://www.research.ibm.com/journal/sj/452/roth.html](http://www.research.ibm.com/journal/sj/452/roth.html) [http://www.research.ibm.com/journal/sj/452/hinkelman.html](http://www.research.ibm.com/journal/sj/452/hinkelman.html)

Prerequisites strong programming skills required.
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