

# **Student Exchange Program**

## **Curtin University of Technology, School of Information Systems**

### **Diploma Theses Proposals 2010 Semester 1**

#### **Virtual 3D World for Distance Learning in Higher Education (1 Thesis Position)**

New interesting and powerful platforms and tools, such as Second Life, Active Worlds, Multiverse, Open Croquet, OpenSim and Sun's 3D Wonderland, have been emerged applicable to complement or even replace other knowledge transfer and learning settings. Modern virtual worlds are seen from an optimistic viewpoint as a disruptive and transformative technology. In this thesis, the application of 3D virtual worlds for collaborative distance learning in higher education should be explored (especially the focus should be on creativity tools and its application for learning and training purposes) and a prototype should be built (either on Second Life/OpenSim or Sun Wonderland).

Further information can be found at [http://opensimulator.org/wiki/Main\\_Page](http://opensimulator.org/wiki/Main_Page) and <https://lg3d-wonderland.dev.java.net/> as well as [http://en.wikipedia.org/wiki/Creativity\\_techniques](http://en.wikipedia.org/wiki/Creativity_techniques)

Supervisor Curtin: Vanessa Chang  
Supervisor TUG: Christian Gütl

#### **Computer-assisted Assessment based on Assessment Rubric (1 Thesis Position)**

Assessment is seen as an integrated part of the learning process. E-Assessment can significantly support stakeholders, reduce effort and provide better feedback for students and teachers. This research project focuses on the extension of an existing rubric-based e-assessment system.

Background information on "Assessment Rubric" can be found at <http://www.suelebeau.com/assessment.htm>

Supervisor Curtin: Heinz Dreher  
Supervisor TUG: Christian Gütl

#### **Procedure for Application (must be written in English):**

1. Prepare an Short CV including interests, programming and software design skills, practical work experiences, language skills and other relevant information

2. Progress Report (Overview) of the study program and average performance level
3. Short Application Letter (1 page)  
stating motivation/reasons why to apply for the Thesis position and outlining interest in the topics of the theses proposals

**Time Schedule:**

- October 20<sup>th</sup>, 2009 Application as PDF File via email to [cguetl@iicm.edu](mailto:cguetl@iicm.edu)
- October 21<sup>th</sup>, 2009 Preliminary decision by supervisors and letter of agreement for supervision by CBS, School of Information Systems, Curtin University of Technology
- October 31<sup>st</sup>, 2009 Application for scholarship  
Claudia Buchrieser, Office of International Relations, Graz University of Technology
- Master Thesis at Curtin University of Technology in Perth, WA  
from February 2010 until July 2010

**Further Information:**

***Local Contact:***

Christian Gütl, [cguetl@iicm.edu](mailto:cguetl@iicm.edu)

***Information about scholarship:***

Barbara Recla, [barbara.recla@TUGraz.at](mailto:barbara.recla@TUGraz.at)

[http://portal.tugraz.at/portal/page?\\_pageid=133,1&\\_dad=portal&\\_schema=PORTAL](http://portal.tugraz.at/portal/page?_pageid=133,1&_dad=portal&_schema=PORTAL)

***Information about Curtin University of Technology***

<http://www.curtin.edu.au/>