



## Internship / Praktikum at the Open Universiteit Nederland, Heerlen

June 5th, 2007

The Open University of the Netherlands, (OUNL) Heerlen is looking for **two students** for a **paid** internship/praktikum for a period up to six months (or longer), to work on “**An Integrated Visualized IMS LD Authoring and Assessment Process Modeling Tool**”. The internship could possibly lead to an eventual Masters Thesis/Diplomarbeit with the OUNL.

The tasks will be performed in the context of TENCompetence, an EU-funded Integrated IST-TEL project that will develop a technical and organizational infrastructure for lifelong competence development. An important component of this infrastructure is an integrated visualized IMS Learning Design (LD) authoring and assessment process modeling tool.

### Task 1:

LD is an open e-learning standard based on Educational Modeling Language (EML) developed by Open University of the Netherlands. LD can be used to specify learning and teaching processes as computational models (called Units of Learning), which then can be executed in any LD-compatible run-time environment. Although several LD authoring tools have been developed, they are not suitable for non-expert users. This task addresses this issue by developing a diagram-based LD authoring tool, which enables pedagogical practitioners to develop Units of Learning intuitively.

### Task 2:

Assessment is an important component in a learning process. The open standard in assessment - IMS Question and Test Interoperability (QTI) specification, describes a data model for the representation of questions and tests. However, QTI does not explicitly support the definition of a variety of roles and of sequencing behaviors and is not sufficient to support innovative forms of assessment such as peer assessment and 360° feedback. This task address this issue by developing a diagram-based assessment modeling tool, which enables pedagogical practitioners to develop new forms of assessment intuitively.

## You bring

### Required

Knowledge and skill in Java, XML and relevant technologies,  
UML Knowledge

### Beneficial but not required

Knowledge of e-learning standards such as IMS LD and IMS QTI,  
Experience of Java Programming in Eclipse, BPM and Workflow

## We offer

A friendly and open working and learning environment,  
Guidance in academic research and technical development

## Contact

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