Software testing life cycle and test driven development for computational tools

Bachelor Thesis | Study Project | Master Thesis

Agile testing of codes is highly important because they reveal bugs and ensure the proper functioning of the software. For computational softwares, testing plays a key role because a bug in the code can be very expensive. The effect is highly pronounced for vibroacoustic simulation tools where, for example in the case of our in-house research code large aircraft models are analyzed.

The testing paradigms of Software Testing Life Cycle (STLC) and Test Driven Development (TDD) are two popular methodologies to perform software testing. Within the context of the project, the two testing principles are studied for a given domain-specific task. The outcome of the project finally provides insight into the various aspects that have to be considered for future developments.

Requirements:

- Aptitude in software development and software testing
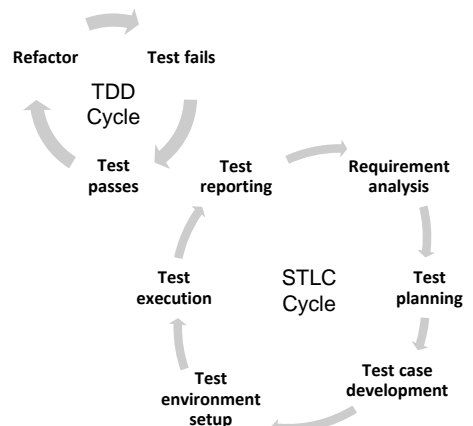
Tasks:

- Study of STLC and TDD principles
- Applying the STLC and TDD principles for domain-specific code development

Start: Immediately

Contact

Harikrishnan Sreekumar, M.Sc.
Langer Kamp 19, Raum 306
Tel: 0531 / 391 – 8780
hk.sreekumar@tu-braunschweig.de

www.tu-braunschweig.de/ina