



Jointly with the International Office of TUM School of Management, the **Chair of Operations Management** is offering a

Project Study

on

Matching of International Students with Buddies.

Problem and Scope

Each year, about 500 international students join TUM School of Management for a semester abroad. To give international student a smooth start in Munich, each incoming student is assigned to a local buddy student. 5 – 6 pairs of international students and buddy students are grouped to so-called families. When pairing international students with buddy students and building families, criteria such as study program, semester, professional interests, age, sex, and hobbies are relevant.

The scope of this project study is to develop an optimization model and to implement the latter to solve the problem depicted above. The data has to be retrieved from an Excel-file and the derived solutions have to be written to an Excel-file. Manual modifications of the derived solutions should be possible and, ideally, a graphical user interface, to run the system is build.

Profile of students

Students should have a good command in Management Science/Operations Research, modeling and optimization with a commercial solver such as CPLEX or GUROBI, and programming skills, e.g., in JAVA or PYTHON.

- Begin and Duration:** The project study should be started as soon as possible; it can be undertaken in full time (3 month) or part time.
- Number of students:** 2-4
- Advisor TUM:** Prof. Dr. Rainer Kolisch
- Advisor International Office:** Solveig Koch und Gabriella Loparco
- Contact:** If you are interested, please contact rainer.kolisch@tum.de or christine.steinberger@tum.de.