Graz University of Technology
**Institute of Chemical Engineering and Environmental Technology**

☐ Bachelor Thesis
☒ Plant Design Practice (KÜ)
☐ Master Thesis

☒ theoretical
☐ experimental
☐ constructive

Topic: **Creating a programming framework to facilitate different projects.**

Within the scope of several projects, our working group has written multiple programs in C++. These are each capable of calculating different thermodynamic and material properties from a given sets of parameters. These programs follow similar programming conventions and also calculate similar properties. Nevertheless, a considerable effort is made for each project in order to establish the basic structures.

The goal of this Plant Design Practice is the creation of a basic programming framework. It should be a uniform program which only needs to be extended by the necessary parameters or sub-programs for the individual projects. This would greatly facilitate cooperation within the working group and to reduce the amount of work for the individual projects.

**Contact:** Dipl.-Ing. Gottfried Segner
segner@tugraz.at
+43 (316) 873 – 7460

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