

ZUYD UNIVERSITY



CHEMTRIX
Scalable Flow Chemistry

LABTRIX START AT ZUYD UNIVERSITY

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For obvious reasons, microreactor technology is gaining interest in both the academic and the industrial world. As a logical consequence it should be introduced into laboratory educations at all levels.

At Zuyd University we have integrated the underlying theory behind microreactor technology into existing modules such as reactor design. In our synthetic chemistry courses the use of microreactors for several reactions and products is discussed and in our minor we use a multidisciplinary approach and combine process (e.g. scale up) with chemical issues.

Our main aim is, of course, that students can work with a microreactor and Labtrix Start is an ideal tool for this. Purchasing a Labtrix Start doesn't mean an additional investment since it can partly replace standard laboratory equipment. In addition, the device saves both money and the environment because of the small amounts of chemicals needed. The equipment itself is robust, safe and easy to operate; lecturers/teachers in our school who had not been in the lab for many years could obtain very good and highly reproducible results within a few hours.

In many cases existing projects can easily be adjusted to the use of microreactors and since the reactions are fast, time consuming experiments (e.g. reflux overnight) are not an issue anymore. More can be done in less time.

Our school has quite a few applied research projects involving microreactors (i.e. a labtrix system), all of which benefit greatly from our microreactor technology education.