Pioneering for You

Abschlussarbeit w/m/d

Group Research & Development – Hydraulics

Major movements like globalisation, digitalisation and energy shortages shape some of our largest future challenges. Challenges that we are happy to accept and dive into. We understand the trends that influence our company and our business and act accordingly. By developing products and solutions we move not only water, we also move the future for people all over the world. As a pioneer in the pump industry we focus as much on our employees as on our high quality pumps. Those of you who want to be part of the Wilo will experience a constant flow of personal and organizational development as well as sufficient space for the implementation of own ideas. At Wilo you will move the future, for yourself and for others.

Statistics offers enormous methods for data analysis. In this work the statistical method “Gaussian regressions” should be applied to fluid mechanical data determined with the numerical tool ANSYS CFX. Geometry changes leads to different flow structures in a geometry. With a Gaussian regression, which bases on a test data set which contains flow structure information of different geometries, the flow structure of similar geometries should be predicted.

Your Tasks:

- Evaluation of CFD data
- Gauss Regression by using Matlab toolbox “Statistic & Machine Learning”
- Graphical presentation of the velocity fields
- Analysis of the prediction accuracy

Your Profile:

- Studies of Engineering (e.g. mechanical, informatics, civil, process), Mathematics or Natural Sciences
- Analytical methods
- Programming (preferably Perl)
- MATLAB
- ANSYS CFX Post beneficial

If you want to keep Wilo fluent and contribute to a successful future, please apply online (incl. earliest entry date): https://wilo.com/de/Karriere/Stellenangebote/Jobs-Wilo-Deutschland/. In case you have any questions, please feel free to contact Sarah Migas: telephone +49 231 4102-6256. If you apply we will electronically store your personal data for a period of six months.

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