

CSC-Scholarship PhD position focusing on “Artificial Intelligence and Deep Learning in Chemical Engineering”

About us

TU Delft is a top-tier university and is exceedingly active in the field of Artificial Intelligence (AI). The Process Intelligence Research Lab is devoted to the development and application of AI in applied sciences (in particular Chemical Engineering, chemistry). As a young and dynamic group, we are actively looking for excellent PhD students. We are a strong team working in a supportive atmosphere on our vision. In our team the values diversity, inclusion, and equality are utmost important to us.

The topic

This thesis is about the development and application of machine-learning & AI algorithms within chemical engineering. We offer a variety of projects including deep learning, computer vision, data mining, computer vision, natural language processing, knowledge graphs, and convolutional graph neural networks. We apply our methods for the optimal design and operation of more sustainable processes in close collaboration with industry.

Your profile

- Self-motivated Chinese PhD candidate
- MSc degree in computer science, chemical engineering, data science, computational engineering science, artificial intelligence, or related fields.
- A proven record and interest in Python programming and machine learning (e.g., PyTorch, Keras).
- Background in chemical engineering or chemistry is a plus.
- Strong communication and presentation skills in English (C1 or higher).
- Strong scientific writing skills
- Strong theoretical foundation in numerical methods
- The ability to work in a team, take initiative, be results-oriented and systematic

Our offer

You will work on the fore-front of AI in Chemical Engineering on an relevant project. During your thesis, you will gain AI expertise and develop valuable skills for your future career. We offer you a strong support during your thesis and a nice team.

Interested?

Then contact us at a.schweidtmann@tudelft.nl and include your CV and a grade overview, motivation letter and language proficiency statement(all in English). Please also mention the intended starting date of the thesis and describe your general expectations.

TU Delft - Process Intelligence Research
Artur M. Schweidtmann

[More information](#)



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