Thesis: Evaluation of deep learning frameworks for AI combustion modelling

Job-ID: 12829
Starting date: Immediately
Location: Augsburg
Country: Germany

- **We can offer you the following tasks**

- Pre-processing and analysis of the combustion measurement data provided
- Development of an AI-based combustion model in TensorFlow / PyTorch
- Test of various neural networks (e.g. RNN, LSTM, ...)
- Hyperparameter optimisation
- Comparison with existing combustion model in MATLAB
- Integration of the newly developed model into the existing modelling environment

- **You can help us with these qualifications**

- Master's students of computer science, mathematics, engineering or similar
- Knowledge / experience with AI (machine learning)
- Good knowledge / experience with Python
- Knowledge of MATLAB is an advantage
- Open-minded, interest in practical application of AI in industry

Our benefits for you

Canteen, meal allowance, accessibility, company health management, company doctor, fitness room, car park, good transport links, employee discounts, student network

Good to know

If you have any questions, please call Nicola Hasl (nicola.hasl@everllence.com)
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Please apply online via our Everllence Job Portal (jobs.everllence.com).

What you should know about us

Everllence SE is paving the way
a climate-neutral global economy. Whether industrial production, energy or maritime economy: we think holistically and are already tackling tomorrow's challenges today. Our technology portfolio incorporates the experience of over 250 years of engineering tradition. Everllence SE is headquartered in Germany and employs around 14,000 people at more than 120 locations worldwide. Our customers also benefit from the global
service centre network of our after-sales brand, Everllence PrimeServ.

You are at home here professionally

The diesel engine, with which Rudolf Diesel declared war on the steam engine, was once invented at Everllence SE headquarters in Augsburg. Today, overcoming the challenges in the marine, energy and industrial sectors has become our main task - not only for the success of our customers, but also for the preservation of our environment. From small efficiency improvements in individual components, such as dual-fuel engines, exhaust gas aftertreatment systems or software solutions, to major innovations at system level - every day, around 5,000 employees work on a better future at our site in the beautiful Renaissance city of Augsburg. Challenging, interesting and full of prospects - you've come to the right place if you want to make a difference.

This is important to us

Integrity and compliance are key elements of our corporate culture. We also promote diversity and equal opportunities and welcome a wide range of online applications. Applications from people with disabilities are expressly encouraged.

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