

Job Title: Development Engineer Screw Compressor Thermo- and Fluid dynamics (m/f/d)



Our solutions are a key part of most industries - electronics, medical research, renewable energy, food production, infrastructure and many more. Working with us means working with the latest technologies and groundbreaking, sustainable innovations.

Join us on our journey for a better tomorrow.

In line with the Gas and Process Division's strategy to further strengthen its product portfolio we are looking for a motivated **Development Engineer Screw Compressor Thermo- and Fluid dynamics (m/f/d)** who is enthusiastic about new solutions and concepts.

Be deeply involved in new product development and pioneer in process gas screw development.

Inspiring - your new tasks:

- Collaborate with interdisciplinary teams in the Gas and Process Division and with complementary specialists in Atlas Copco Compressor Technique organization to develop innovative solutions and designs for gas screw compressors
- Cooperate with universities to ensure state-of-the-art thermodynamic and fluid analytics for your responsibility
- Design and optimize (twin) screw compressor compression geometries by multi-chamber thermodynamic solutions
- Develop and program software tools, software tool components to customize and internalize gas screw compressor design methodology and processes
- Perform structural simulations of deformation by thermal and pressure loads
- Perform 3-D CFD Simulations using ANSYS CFX and validating the simulations with experimental data
- Analyze and evaluate field and test-bed measurements; build up and maintain a database to gather experience, aiming to feedback and improve our screw compressor designs
- Continuously optimize processes and systems

Convincing - what you bring to the table:

- Basic knowledge in screw compressor functionality
- Interest and willingness to learn about and achieve professionalism in screw compressor thermodynamics and mechanics
- Degree in fluid dynamics Engineering, Process Engineering, or in a related field.
- Strong programming skills (e.g., Python, C++, MATLAB)
- Experience with CFD software, particularly ANSYS CFX
- Analytical thinking and a passion to solve challenges
- You are a dynamic, highly motivated person who can adapt quickly to changing circumstances to set the right priorities
- Team Player with strong communication skills and intercultural competence
- Fluent in English
- You are passionate about creating new solutions, new products and new applications and you engage yourself in life-long learning to set the pace of our innovation

That makes us special:

As part of a global Swedish group, we share many of the values of Swedish culture: We offer you a friendly, family environment based on integration, togetherness, sustainability, diversity, and strong ethics. True to our motto "Never stop learning", you can learn something new with us every day. You have a broad portfolio of opportunities for this, e.g. LinkedIn Learnings, our digital learning platform or our internal training catalogue.

With us, you will work in a dynamic working environment with a flat organizational structure, an open corporate culture and short decision-making paths, sharing experiences and helpfulness among colleagues is part of our culture.

What you can expect from us:

- A modern working environment with a good working atmosphere in an economically healthy, growing company
- Flat hierarchies and cross-departmental networking through our “Duz” culture and team-building activities as well as celebrating our successes at employee events
- Flexible working hours with the option of mobile working for a successful work-life balance
- Attractive remuneration package (in accordance with the NRW metal tariff)
- Regular health-promoting offers (e.g. on-site physiotherapy)
- Good transport connections in the south of Cologne, employee parking lot, covered bicycle parking spaces
- Subsidized Germany ticket
- Attractive canteen with a wide range of (partly vegetarian / vegan) dishes / free hot drinks
- 30 vacation days and special leave for special occasions
- Wide range of employee benefits (e.g. corporate benefits, participation in B2run Cologne, Volvo Leasing)

Have we piqued your interest?

Then we look forward to receiving your detailed application via our HR:Link recruiting tool.

If you have any questions about your application, please contact:

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Diverse by nature and inclusive by choice

Bright ideas come from all of us. The more unique perspectives we embrace, the more innovative we are. Together we build a culture where difference is valued and we share a deep sense of purpose and belonging.