Industrial Research - Researcher (Mathematics, Physics or IT)

AGC Glass Europe
Gosselies, Belgium
Ref: 190701-AGC-EEIR

Apply

To apply for this position please email your CV to exp54964_1337@hr-service.pro quoting reference: 190701-AGC-EEIR

AGC Glass Europe offers challenging, and highly rewarding career opportunities. Join a leading international glass company, share a global stage of incredible opportunity with more than 50,000 employees world-wide. Work and grow alongside some of the brightest people in your field.

Based in Belgium, AGC Glass Europe is the European branch of the AGC group (Asahi Glass Co., Ltd), the world’s largest producer of flat glass.

AGC produces, processes and distributes flat glass for the construction industry (external glazing and indoor decorative glass), the automotive industry, solar applications, specialized industries (glazing for railway and subway cars and ships, glass for domestic appliances) and various high-tech applications (smart and interactive screens).

AGC Glass Europe currently employs some 14,000 people. Its industrial facilities comprise 18 float glass lines, 10 automotive glass processing centres and more than 100 distribution-processing units in Europe, stretching from Spain to Russia.

AGC's Technovation Centre (Gosselies, Belgium)

The Technovation Centre located in Gosselies (Belgium) centralises research, engineering and IP activities under one roof. It employs 250 people among which 180 researchers (mostly engineers and PhD's), all driven by operational excellence and innovation.

Based on its three missions of technological innovation, technical assistance and scientific advice, the R&D Centre is developing the high-tech glass products of tomorrow while taking human wellbeing and protection of the environment into account.

Antibacterial glass, Glassiled Motion for dynamic façades TirExtreme for Multitouch screens are some of the most recent innovations.
Experience the excitement and challenges of industrial research - AGC’s Technovation Centre is recruiting a researcher to perform numerical simulations of its float furnaces and analyze industrial data for the global improvement of its manufacturing activities

**The Role / Job:**

Your role inside the GMR department (Glass Melting & Refractories)

You will join a dynamic team of researchers inside the GMR department in the Technovation Center, active in the following areas:

- raw materials used in the glass recipe
- glass melting
- refractory materials for our production furnaces
- numerical simulations, energy audits and endoscopic inspections of our production furnaces
- thin and extra thin glass
- industrial data mining and analysis

Specific training and support will be put in place from the first months with our researchers and technicians. You will be responsible for two main areas:

**You will simulate float furnaces**

- Drawing and meshing furnace geometries
- Simulating glass flow and temperature and combustion in the furnaces
- Reporting and making recommendations
- Coordinating with other departments

**You will be involved in 4.0 research projects targeting the global improvement of manufacturing processes.**

- In partnership with AGC production, IT and research teams, startups, academic research institutes, research laboratories, you will help developing a new BIG Data Platform. Practically you will:
  - Manage, mine and analyze structured and unstructured data from industrial databases to drive optimization and improvement of processes and products
  - Design develop and maintain high quality code
  - Develop new methods to test the data
  - Draw statistically meaningful conclusions, interpret and deliver results with visualization techniques, or tools
• Work with stakeholders throughout the organization to identify opportunities for translating company data into business solutions in order to generate quantifiable value
• Explore appropriate data mining approaches to help identify the factors that control product quality in manufacturing environments
• Investigate latest advances in the field of artificial intelligence, smart factories, intelligent buildings

Requirements:

Your profile

You are an engineer or hold a master's degree in applied mathematics, physics or IT, or have acquired a solid background and training in numerical simulations and/or data analysis, statistics, and data mining processes.

As such, you display the following competences

• Advanced analytical skills
• Problem solving, results oriented
• Ability to communicate results to both technical and non-technical colleagues
• Ability to solve challenging problems by using innovative non-conventional approaches
• Excellent team working and communication skills
• Flexibility and adaptability

Specifics

Knowledge in following software or programming tools is an asset:

• Simulation tools: Ansys Fluent, Abaqus
• Programming language: R, R Shiny, SQL, Python

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