

Mathematics in Krakow and HSBC

Information to students

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Introduction

Krakow is home to many global and local companies that employ mathematicians. Roles range across risk modeling, data science, machine learning, and operations research.

Employers and Specialties in Krakow

- **Specialties:** Risk modeling, traded risk analytics, compliance analytics.
- **Roles:** Quant developers, financial modelers.
- **What They Do:** HSBC provides analytics for financial and operational risks, leveraging cutting-edge technology.

- **Specialties:** Operations research, financial analytics, and risk modeling.
- **What They Do:** Supports global energy operations with data-driven decisions and financial insights.

- **Specialties:** Data analytics for energy systems and industrial automation.
- **What They Do:** Focuses on transformative industrial and energy solutions globally.

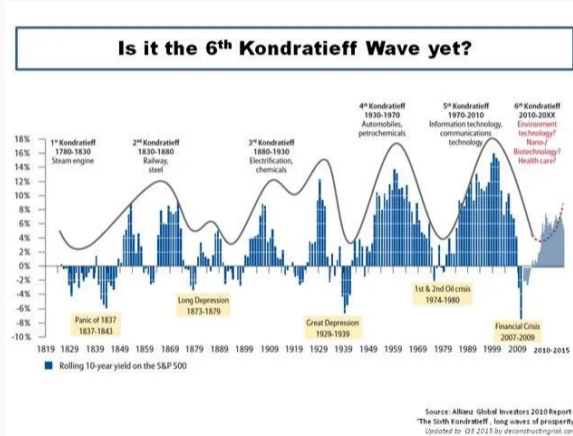
- **Specialties:** Algorithm development and statistical analysis.
- **What They Do:** Develops communication solutions for industries worldwide.

- **Specialties:** Financial modeling and quantitative risk analysis.
- **What They Do:** Offers wealth management and investment banking services with deep analytics.

- **Specialties:** Data science and process optimization.
- **What They Do:** Consulting and technology services for operational efficiency.

- **Specialties:** Operations optimization and quantitative analytics.
- **What They Do:** Innovates manufacturing and supply chain processes.

- **Specialties:** AI and machine learning engineering.
- **What They Do:** Connects professionals with roles in AI/ML development.



HSBC

- Founded in 1865 to finance trade between Europe and Asia.
- One of the world's largest banking and financial services organizations.
- Operates in over 63 countries and territories.
- Serves more than 40 million customers globally.

Historical Highlights

- **1865**: Founded in Hong Kong and Shanghai.
- **1880s**: Expanded operations to Japan, India, and Europe.
- **1991**: Established HSBC Holdings plc as the parent company.
- **2000s**: Major acquisitions, including Household International (USA) and Bank of Bermuda.
- **2015**: Shifted strategic focus to Asia and emerging markets.

- HSBC plays a pivotal role in facilitating international trade and finance.
- Provides services across retail banking, commercial banking, investment banking, and wealth management.
- Supports sustainable financing initiatives, including green bonds and environmental projects.

- **Headquarters:** London, United Kingdom.
- **Key Regions:** Asia-Pacific, Europe, North America, Latin America, Middle East, and Africa.
- Employs approximately 220,000 people worldwide.

Financial Performance (2023 Figures)

- Total assets: \$3.1 trillion.
- Revenue: \$56 billion.
- Net profit: \$14 billion.
- Maintains a strong capital base with a CET1 ratio of 14.4%.

HSBC in Krakow

- HSBC operates a significant Global Service Delivery (GSD) center in Krakow.
- Provides specialized support across risk, finance, operations, and technology.
- Plays a key role in HSBC's global operations network.

- **Employees:** Approximately 4,000 full-time employees.
- **Contractors:** Supports several hundred contractors for specialized roles.
- **Offices:** Located at Kapelanka 42A and surrounding locations in Krakow.

- **Operations:** Supports the banks business, e.g. payments, know your customer, customer due dilligence, loans, etc.
- **Risk Management:** Ensures a safe operation of the bank.
- **Finance and Operations:** Drives efficiency in global financial transactions.
- **Technology and IT:** Develops and supports systems used across HSBC globally.

Opportunities for Mathematicians in those teams

- **Operations**
- **Risk Management**
 - Model Risk Management
 - Wholesale Credit Analytics
 - Traded Risk Analytics
 - Financial Engineering
 - Compliance analytics
 - etc.
- **Finance and Operations**
 - Product Control
- **Technology and IT**
 - Cyber Security
 - AI (of course)

Conclusion

1. The future is Mathematics!
2. Krakow's vibrant job market offers mathematicians roles across industries like finance, energy, IT, and manufacturing.
3. HSBC remains a cornerstone of global finance, driving economic growth and innovation while supporting customers and communities worldwide.
4. HSBC in Krakow has massive potential to offer a worthwhile career for a mathematician

Explore opportunities on platforms like **pracuj.pl** and company websites.

Thank You