



MATHEMATICS IN KRAKOW AND HSBC

INFORMATION TO STUDENTS

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Table of Contents

Contents

1 Introduction	2
2 Employers and Specialties in Krakow	2
3 HSBC	4
4 HSBC in Krakow	5
5 Conclusion	6

1 Introduction

Overview

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

2 Employers and Specialties in Krakow

HSBC Service Delivery (Polska)

- **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.

Shell Business Operations

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

ABB

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

Motorola Solutions

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

UBS (Poland)

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

Capgemini

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

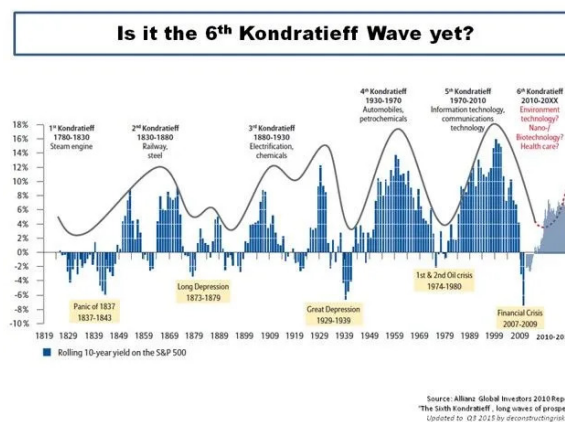
Kimberly-Clark EMEA GBS Kraków

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

MindPal

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

Why



3 HSBC

Introduction to 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.

Global Importance

- 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.

Global Reach

- **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%.

4 HSBC in Krakow

HSBC Krakow Overview

- 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.

Statistics of HSBC Krakow

- **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.

HSBC Krakow Teams

- **Operations:** Supports the banks business, e.g. payments, know your customer, customer due diligence, 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)

5 Conclusion

Summary

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

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

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