

# Water Resources Hydraulic Modeler

Location: Rzeszów / Kraków / Gdynia / Warszawa, Poland

**Do you enjoy working with hydraulic models and solving complex flood risk challenges? And would you like to contribute to projects improving water safety and resilience?**

## About DHI

DHI is a global and independent company dedicated to working on challenges within water, environment and sustainability. We provide advisory services, advanced digital solutions and world-leading MIKE technologies to support decision-making and improve resilience in water environments. By joining DHI, you will become part of a collaborative and international community of experts working on impactful projects that improve the way water is managed worldwide.

## About the role

As a Water Resources Hydraulic Modeler, you will support projects within water management, with a strong focus on flood risk management and flood protection. You will develop and apply hydraulic models (1D and 2D) to assess flood hazards, evaluate mitigation measures and provide technical input for evidence-based decision-making. You will be part of the Water Resources team in Poland, contributing to high-quality technical analyses and multidisciplinary projects.

## Your key responsibilities

### Hydraulic Modelling

- Develop, set up, calibrate and validate hydraulic models (1D and 2D) for rivers
- Perform flood hazard and flood risk analyses (extent, depth, velocity)
- Prepare and process input data (topography, hydrology)
- Conduct scenario-based simulations to assess flood protection measures
- Analyse and interpret modelling results to support engineering and planning decisions

### Advisory & Project Delivery

- Deliver technical analyses supporting advisory services and decision-making
- Translate complex modelling outputs into clear, concise insights for clients
- Contribute to multidisciplinary projects (hydraulic, environmental, planning, economic)
- Ensure high-quality outputs aligned with project scope, timeline and standards
- Prepare technical reports, documentation and visualisations
- Present results to clients and stakeholders

### Who you will work with

- Water Resources teams in Poland and globally
- Head of Department and senior experts
- Internal multidisciplinary project teams
- External clients and stakeholders

## Your profile

### Education

Bachelor's or Master's degree in Environmental Engineering, Environmental Protection, Geography, Spatial Planning or similar

### Experience & Skills

- Minimum 3 years of experience in a similar role
- Knowledge of hydraulic modelling tools (MIKE or HEC-RAS)
- Knowledge of GIS tools (ArcGIS or QGIS)
- Experience in data preparation and analysis for modelling
- Ability to streamline and automate workflows
- Python knowledge is an advantage

### Languages

- English at minimum B2 level
- Polish at minimum B2 level

### Personal qualities

- Strong analytical and problem-solving mindset

- Attention to detail and quality focus
- Clear communicator
- Collaborative team player
- Proactive and self-driven
- Curious and eager to learn
- Adaptable

**What we offer**

- Opportunity to work on impactful water and flood risk projects
- Collaboration with international experts
- Professional development and continuous learning
- Flexible and supportive work environment
- Participation in innovative and multidisciplinary projects

**Additional information**

Location: Rzeszów / Kraków / Gdynia / Warszawa

Travel: Several business trips per year

**Interested?**

Apply via our recruitment system and join a team dedicated to improving water environments worldwide.