



# Jorma Tuppurainen

Principal Consultant  
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*Extractive metallurgist with over 45 years of experience in flowsheet design, evaluation and development.*

## Expertise

- Extensive experience in high temperature extractive metallurgy for primary and secondary processing.
- Process evaluation, design and improvement.
- Developed processes from pilot to full scale.
- Gas handling and cleaning systems.
- Process control specialist.
- Commissioning, especially high temperature plants.
- Environmental engineering and compliance.
- Technical review and audits of mineral processing and extractive metallurgy plants.
- Worked on copper, lead, nickel, silver, zinc, ferroalloys and recycling.

## Background

Jorma has over 45 years' experience in virtually all aspects of extractive metallurgy and mineral processing. He is a specialist in high temperature processing and gas handling. He has developed smelting flowsheets from concept to pilot scale to full scale commercial production.

Jorma applies deep analytical and thermodynamic skills to analyse operations and develop flowsheet and operating improvements. He is expert in applying process control to stabilise and then improve operations.

As well as support to existing plants, Jorma provides specialist input to pre-feasibility and feasibility studies, and economic evaluation of projects, and commercial support for investment studies and insurance claims.

Jorma has worked extensively in environmental monitoring, statutory compliance and liaison with regulatory authorities.

## Experience

**Mineralurgy (now Mineralis)**  
 Principal Consultant

**BHP Billiton**  
 Senior Principal Engineer

**WMC Resources**  
 Principal Metallurgist - Smelting

**MIM Holdings**  
 Executive - Environmental Engineering  
 Technical Superintendent Smelters  
 Process Specialist Zinc Refining Study  
 Leader - Mount Isa Process Control Group  
 Engineer - Lead and Silver Refinery

## Qualifications

- 1979 Bachelor of Engineering- Chemical (first class honours) University of Queensland
- 1973 Certificate in Primary Metallurgy.

## Associations

Member of the Australasian Institute of Mining and Metallurgy.

Member of Institution of Chemical Engineers, United Kingdom.