



CYIENT

# GLOBAL ENGINEERING PARTNER FOR THE MINING INDUSTRY

How we work with our clients to help overcome challenges  
for a better tomorrow

CELEBRATING  
**25**  
YEARS



## Overview

Our product engineering services support customers in new product development, variant engineering, value engineering, localization, compliance engineering, obsolescence engineering, product optimization and enhancement services. The solutions are built around the key concepts of health, safety and compliance.

We combine best practices across industries, innovative engineering concepts and technologies to provide the optimum solution. With presence across the globe, Cyient is well-positioned to support mining companies and OEMs with expansion plans, standardize processes and systems across geographies and product lines.

## Value Proposition

- Enhance health and safety
- Focus on compliance
- Enhance life of high value assets
- Process and systems standardization
- Compress time to market
- Reduce total engineering cost
- Match customer footprint

## Mining Companies

### Key Services

#### Asset Management

- Detailed design
- Reliability engineering
- Standards review
- Maintenance tactics
- Mine site drawings
- Technical publication
- Compliance engineering
- Contracts and reconciliations

## HOW WE CAN HELP

Multidisciplinary engineering expertise with strong product engineering and horizontal support

Increase productivity through streamlined processes and standards

Maximize capital asset utilization through product enhancement and reduced downtime

Enhanced focus on health and safety through product improvement solutions and a strong focus on compliance

Increase flexibility of engineering capacity

Localize mining equipment as per market needs

### Mine Design Services\*

- Mine design service support
- Open pit/underground mine design
- Mine site drawings
- Pit optimization
- Rail network management
- Scheduling (Development/production)

\*Future services

### **Process Engineering**

- Plant engineering
- Piping and mechanical design
- Instrumentation and control
- Electrical

### **Utilities**

- Power generation equipment design
- Electrical transmission design
- Utilities management and automation
- Power optimization

## **Equipment Manufacturers**

### **Area of Expertise**

#### **Emission Compliance**

- Packaging and placement of engine
- Emission standard component
- Electrical routing and schematics

#### **Aftermarket Support**

- Tooling/fixture design and development
- Prototyping
- Virtual engineering
- Cost reduction

#### **Specialized Solutions**

- Application engineering
- Localization solution
- System integration
- Value analysis/value engineering solutions

#### **Powertrain**

- Design of casting components
- Design of sheet metal components
- Brake force and performance calculation
- Free body diagram

#### **Structures**

- Sheet metal and welded fabrication design
- Validation of structural components
- Knowledge of building/design codes

## **KEY HIGHLIGHTS**

- Process engineering services across project life cycle, from FEED through commissioning
- Expertise in various plant design and validation tools
- 10+ million hours of experience in providing utilities services
- Team of 1500+ engineers with expertise across turbines, engines, compressors, mechanical and combustion systems
- Dedicated, lifetime support for tactics development
- As-build condition and standardization of mine site drawings across multiple disciplines

### **Operator Environment**

- Visibility and ergonomic studies
- Operator controls optimization
- HVAC - selection and optimization

### **Engine**

- Concept to build
- Packaging and placement of engine components
- Statutory and regulatory compliance requirements

### **Casting**

- Casting design
- Sand casting
- Pressure and gravity die-casting
- Investment casting components

## About Cyient

Cyient is a global provider of engineering, manufacturing, data analytics, networks and operations solutions. We collaborate with our clients to achieve more and shape a better tomorrow.

With decades of experience, Cyient is well positioned to solve problems. Our solutions include product development and life cycle support, process and network engineering, and data transformation and analytics. We provide expertise in the aerospace, consumer, energy, medical, oil and gas, mining, heavy equipment, semiconductor, rail transportation, telecom and utilities industries.

Strong capabilities combined with a network of more than 13,500 associates across 38 global locations enable us to deliver measurable and substantial benefits to major organizations worldwide.

For more information about Cyient, visit our website.

## Contact Us

### NAM Headquarters

Cyient, Inc.  
330 Roberts Street, Suite 400  
East Hartford, CT 06108  
USA

T: +1 860 528 5430  
F: +1 860 528 5873

### EMEA Headquarters

Cyient Europe Ltd.  
High Holborn House  
52-54 High Holborn  
London WC1V 6RL  
UK

T: +44 20 7404 0640  
F: +44 20 7404 0664

### APAC Headquarters

Cyient Limited  
Level 1, 350 Collins Street  
Melbourne, Victoria, 3000  
Australia

T: +61 3 8605 4815  
F: +61 3 8601 1180

### Global Headquarters

Cyient Limited  
Plot No. 11  
Software Units Layout  
Infocity, Madhapur  
Hyderabad - 500081  
India

T: +91 40 6764 1000  
F: +91 40 2311 0352

[cyient.com](http://cyient.com)  
[connect@cyient.com](mailto:connect@cyient.com)