Main Areas IEs Work In at The Boeing Co.

• MANAGE PROJECTS
  - Project Management
  - Project Scheduling
  - Risk Management

• PROCESS IMPROVEMENT
  - Lean Manufacturing
  - Engineering Economic Analysis
  - Process Modeling
  - Root Cause Analysis
  - Statistical Methods
  - Six Sigma
  - Time Studies
  - Work Sampling

• SUPPLY CHAIN ANALYSIS
  - Supply Chain Alignment
  - Material Logistic
  - Inventory Control
  - Supplier Support
  - Make/Buy Mfg Process

• OPERATIONS IMPROVEMENT
  - Ergonomics & Human Factors
  - Operating Plans
  - Recovery Planning
  - Capacity Planning

• INTEGRATED SYSTEMS
  - Value Stream Analysis
  - Facilities Layout
  - Production System Design
  - Manufacturing Process Design
  - Systems Thinking

• DIRECT SUPPORT TO PRODUCTION
  - Production Scheduling
  - Theory of Constraints
  - Budgets & Forecasts
  - Crew Empowerment
  - Defect Analysis
  - Benchmarking Analysis
Industrial Engineering

Functional Work Areas

Product Engineering
- Team Facilitation
- Product Development

Finance
- Make/Buy Analysis
- Comparison of Alternatives
- Cost Estimating

Project Management
- Resource Planning
- Risk Analysis
- Project Scheduling

Production Control
- Job Scheduling
- Expedite procedures

Quality
- SPC/SQC
- DOE
- Supplier Quality
- Queuing Theory
- Six Sigma

Training
- Course Facilitation

Facilities
- Layout Design
- Process Flow Analysis

Transportation
- Logistics Planning
- Material Handling

IE Methods
- Workstation Design
- Ergonomics
- Methods Engineering

Tooling
- Tool Fab process
- Tool Offload procedures
- Tool Repair process
- Tool Room procedures

Factory Operations
- Production Simulation
- Theory of Constraints
- Systems Integration
- OSHA Regulations
- Safety Management
- Linear Programming
- Lean Manufacturing

Inventory
- Inventory Management
- Supplier Selection
- Material Requirements Planning
- Supply Chain Management