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

- 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

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

- Training
  - Course Facilitation

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