

AEROSPACE CAREER SPECIALIZATION CHART

A major aerospace industry corporation, McDonnell Douglas Aerospace, has prepared this chart of career categories available with a listing of University Degree programs which will provide the student with a background for the work required.

Accounting/Auditing

Business Administration, Economics/Law/Marketing

Automation and Data Processing

Industrial Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Computer Programming

Industrial Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Engineering Administration

Industrial Engineering
Mechanical Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing

Financial (Fiscal)

Business Administration, Economics/Law/Marketing
Computer Science

Information Systems

Industrial Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Management Systems

Industrial Engineering
Business Administration, Economics/Law/Marketing
Computer Science

Pricing and Estimating

Civil Engineering
Business Administration, Economics/Law/Marketing

Procurement

Civil Engineering
Business Administration, Economics/Law/Marketing

Aerodynamics

Mechanical Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Marketing Systems

Civil Engineering
Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science
Physics

Program Planning

Civil Engineering
Business Administration, Economics/Law/Marketing

Safety

Civil Engineering
Industrial Engineering
Mechanical Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing
Chemical Engineering/Chemistry

Technical Writing and Illustrating

Civil Engineering
Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Business Administration, Economics/Law/Marketing
Psychology/Physiology/Biology/Medicine
Chemical Engineering/Chemistry
Mathematics/Statistics
Physics

Antennas and Systems

Industrial Engineering
Electrical/Electronics Engineering
Mathematics/Statistics
Physics

Environmental

Mechanical Engineering
Aeronautical/Astronautical Engineering
Psychology/Physiology/Biology/Medicine
Chemical Engineering/Chemistry
Physics

Career Specialization Chart

Circuit Design, Synthesis and Analysis

Electrical/Electronics Engineering
Physics

Automation and Data Processing

Business Administration, Economics/Law/Marketing
Computer Science

Control Systems

Industrial Engineering
Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Computer Science

Communications Systems

Electrical/Electronics Engineering
Computer Science
Physics

Electronic Packaging

Mechanical Engineering
Electrical/Electronics Engineering

Electrical Power Systems

Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing

Energy Conversion

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Physics

Electronic Test Equipment

Mechanical Engineering
Electrical/Electronics Engineering
Physics

Materials and Processes

Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry
Physics

Flight Mechanics and Dynamics

Industrial Engineering
Mechanical Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Flight Test Operations

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics

Guidance Systems

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Heat Transfer/Thermodynamics

Mechanical Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry

Hydraulics

Mechanical Engineering

Instrumentation

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry
Physics

Propulsion Systems

Mechanical Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry

Operations Research/Analysis

Industrial Engineering
Mechanical Engineering
Aeronautical/Astronautical Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Physics

Career Specialization Chart

Maintainability

Civil Engineering
Industrial Engineering
Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering

Mechanical Systems

Mechanical Engineering
Aeronautical/Astronautical Engineering

Mechanical Design

Mechanical Engineering
Aeronautical/Astronautical Engineering

Missile Tracking and Control

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Microelectronics

Electrical/Electronics Engineering

Optics

Physics

Navigation and Displays

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Physics

Structural Mechanics/Strength/Loads

Civil Engineering
Mechanical Engineering
Metallurgical Engineering
Aeronautical/Astronautical Engineering
Physics

Thermomechanical Systems

Mechanical Engineering
Metallurgical Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry
Physics

Safety

Civil Engineering
Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Psychology/Physiology/Biology/Medicine
Chemical Engineering/Chemistry

Power Plant

Mechanical Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry

Simulations Systems

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Reliability and Standards

Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Chemical Engineering/Chemistry
Mathematics/Statistics

Structural Dynamics

Civil Engineering
Mechanical Engineering
Aeronautical/Astronautical Engineering
Physics

Servomechanisms

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Physics

Structures Design

Civil Engineering
Mechanical Engineering
Aeronautical/Astronautical Engineering

Career Specialization Chart

Telemetry

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Physics

Computer Applications

Industrial Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Computer Programming

Industrial Engineering
Metallurgical Engineering
Aeronautical/Astronautical Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Information Systems

Industrial Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing
Mathematics/Statistics
Computer Science

Facilities Engineering (Plant)

Civil Engineering
Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Electrical/Electronics Engineering
Business Administration, Economics/Law/Marketing
Chemical Engineering/Chemistry

Weapon System Analysis

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics
Physics

Weights

Civil Engineering
Mechanical Engineering
Aeronautical/Astronautical Engineering
Mathematics/Statistics

Wind Tunnel/Gas Dynamics

Mechanical Engineering
Electrical/Electronics Engineering
Aeronautical/Astronautical Engineering
Physics

