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

P.1(4)
<table>
<thead>
<tr>
<th>Career Specialization Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Circuit Design, Synthesis and Analysis</strong></td>
</tr>
<tr>
<td>Electrical/Electronics Engineering</td>
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<tr>
<td>Physics</td>
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<td><strong>Automation and Data Processing</strong></td>
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<td>Business Administration, Economics/Law/Marketing</td>
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<td>Computer Science</td>
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<td><strong>Control Systems</strong></td>
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<tr>
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<td>Mathematics/Statistics</td>
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<td>Computer Science</td>
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<tr>
<td><strong>Communications Systems</strong></td>
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<td>Electrical/Electronics Engineering</td>
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<tr>
<td>Computer Science</td>
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<tr>
<td>Physics</td>
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<td><strong>Electronic Packaging</strong></td>
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<tr>
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<tr>
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<tr>
<td><strong>Electrical Power Systems</strong></td>
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<tr>
<td>Business Administration, Economics/Law/Marketing</td>
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<tr>
<td><strong>Energy Conversion</strong></td>
</tr>
<tr>
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<td><strong>Electronic Test Equipment</strong></td>
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<tr>
<td><strong>Materials and Processes</strong></td>
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<tr>
<td>Industrial Engineering</td>
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<td>Mechanical Engineering</td>
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<td>Metallurgical Engineering</td>
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<tr>
<td><strong>Flight Mechanics and Dynamics</strong></td>
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<td><strong>Flight Test Operations</strong></td>
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<td><strong>Guidance Systems</strong></td>
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<td><strong>Heat Transfer/Thermodynamics</strong></td>
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<td>Chemical Engineering/Chemistry</td>
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<tr>
<td><strong>Hydraulics</strong></td>
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<td>Mechanical Engineering</td>
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<td><strong>Instrumentation</strong></td>
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<td><strong>Propulsion Systems</strong></td>
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<td><strong>Operations Research/Analysis</strong></td>
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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