

# BACHELORS AEROSPACE ENGINEERING

## TOP INDUSTRIES

1. Aerospace & Defense
2. Government/Military
3. Consulting
4. Industrial Engineering & Transportation
5. Education/Academia

## SAMPLE JOB TITLES

- Aerodynamic Performance Engineer
- Aircraft Systems Engineer
- Design Engineer
- GNC Engineer
- Project Engineer
- Propulsion Engineer
- Sensors Application Engineer
- Software Engineer
- Spacecraft ATLO Engineer
- Structural Engineer
- Systems Engineer
- Test Engineer

## TOP HIRING COMPANIES



## SAMPLE HIRING COMPANIES

- AeroDynamic Advisory
- Aerospace Corporation
- Agile Space Industries
- Airflow Sciences
- Amazon
- Ascent Aerospace
- Astranis
- Aurora Flight Sciences
- Belcan
- Bell Textron
- Blue Canyon Tech.
- Brookhaven Nat'l Lab
- Electra.aero
- Flow Traders
- Ford Motor Company
- GE Aerospace
- General Atomics
- General Dynamics
- Gulfstream Aerospace
- Harman International
- Hermeus
- Johns Hopkins APL
- Johnson Electric
- L3Harris
- Loc Industries
- MathWorks
- McMaster-Carr
- Michigan Flyers
- Microsoft
- Millennium Space Systems
- Moryde
- NASA
- National Aerospace Solutions
- Northrop Grumman
- Pratt & Whitney
- PwC
- REGENT Craft
- Rolls-Royce
- SpaceX
- Thermal Structures
- United Airlines
- University of Michigan
- Varda Space Industries
- Vayu
- Volair
- Williams International

## FULL TIME STARTING ANNUAL SALARY

Average: \$85,483

Min	Median	Max
\$70,000	\$81,100	\$135,000

## INTERN HOURLY SALARY

Average: \$26.24

Min	Median	Max
\$15	\$26.50	\$48.40

Data are from Academic Year 2023.

Visit [career.engin.umich.edu/career/salary-info](https://career.engin.umich.edu/career/salary-info) for more comprehensive data.

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## SAMPLE ELEVATOR PITCH

*Hi, I'm NAME. I'm a sophomore studying Aerospace Engineering and I'm interested in your aeronautics internship.*

*I'm involved M-Fly on the Propulsion sub team where I have tested motor-propeller combinations to find the optimal thrust for the SAE Aero Design competition. I also serve as the Outreach Chair in the Black Students in Aerospace organization.*

*I'm hoping to apply my design and leadership skills in your aeronautics internship, specifically on your autonomous systems research. Can you share more about the program?*

## SAMPLE IMPACT STATEMENT

**Before** - Summarized test data from engines

**After** - Synthesized and analyzed temperature stress data from sensors on the engine tubing to determine which parts need improvement.

## KEY COURSES

**AEROSP 305** - Aerospace Engineering Laboratory I; fundamentals of instrumentation and measurement application of analog and digital data acquisition, analysis of discrete measurement data

**AEROSP 405/388** - Aerospace Engineering Laboratory II; advanced testing and measurement applications

**AEROSP 481/483** - Aircraft or Space Systems Design; senior design of an aircraft or space system with sub-disciplines of aerodynamics, performance, stability and control, propulsion, structures, aeroelasticity, mission planning, launch vehicle integration, propulsion, power systems, communications, budgeting, and reliability

## KEY SKILLS

**MATLAB & Simulink** - coding language and graphical programming environment for analyzing systems

**Python** - coding language

**CAD Softwares** - SolidWorks, AutoCAD, and Fusion used to model aircraft parts

**Systems Tool Kit (STK)** - software to perform analyses air and space systems

## SAMPLE EXTRACURRICULARS

**Sigma Gamma Tau** - Honors Society

**Women in Aeronautics & Astronautics**

**American Institute of Aeronautics & Astronautics**

**Michigan Aviators**

**Design Teams** - M-Fly, MASA, MAAV, MRover, MACH, Michigan Hyperloop, Michigan Exploration Lab, MVFT