Bite of Science 2016
What is a Meteorologist?

- Meteorologists are scientists who study weather. Their job is to understand the conditions that influence weather and then predict the weather. To predict or forecast the weather, they must begin by making observations.

- Weather is a science that studies the phenomena of the atmosphere, especially weather and weather conditions.
Aviation Meteorologist

Aviation meteorologists plan an important role in helping pilots navigate the complexity of our atmosphere. Aviation weather meteorologists work 24/7, 360 days a year to ensure pilots get to their destination as safe and as smooth as possible.

Major responsibilities include:
  - Analyzing weather models
  - Drawing maps
  - Building flight plans

The flight brief is given to the pilot before they take off...so they have an idea of the weather enroute.

Bottom line, the flight brief was mainly used to show any major risks to the flight...mostly from thunderstorms, icing and turbulence.
Instruments Used

- **Thermometer** – Measures the air temperature. When the air around the tube heats the internal liquid, the liquid expands and moves up the tube, then indicating the temperature by the number scale.

- **Barometer** – Measures air pressure. It tells you whether or not the pressure is rising or falling.
  - Rising means sunny and dry conditions – identified by ‘High’
  - Falling means stormy and wet conditions – identified by ‘Low’

- **Rain Gauge** – Measures the amount of rain that has fallen over a specific time period.

- **Weather Balloon** – Measures weather conditions in the upper atmosphere
  - Ex. Flight levels up to 40,000ft

- **Compass** – Used for navigational tools especially important for pilots when flying across the world.

- **Weather Satellites** – Used to photograph and track large-scale air movements.

YOUR EYES! Always keep your eyes on the sky!
Living on Mount Washington, NH
Exploring Opportunities

http://jobs.rockwellcollins.com/student-new-grads/
Take your aspirations

HIGHER

Today, the future looks brighter than ever as we move forward with aerospace innovations that will dramatically improve the way we work and live tomorrow. It’s an exciting time to become a part of our team. As we continually strive upward, outward and forward, your career can grow and expand with us.

Join us and discover how high your career can soar at Rockwell Collins.
Students & New Grads

We believe in cultivating minds and stoking curiosity. That’s why we offer a wide range of exciting opportunities for students and recent grads, working alongside the brightest minds in the industry and uncovering real solutions that deliver real products.

Work with us and you’ll enjoy:

• Competitive wages and benefits
• Ongoing career development resources
• The opportunity to work on developing new technologies
• Meaningful projects that solve problems

In addition to meaningful professional experience with an innovative company, we offer our interns and co-op students many additional valuable benefits.

Internships

We offer internships and co-op opportunities throughout our company. Program areas include engineering, information technology, corporate, operations, accounting and finance, sales and marketing and program management. Our mission is to build skills and create an experience that encourages our student employees to choose Rockwell Collins as their future home after they graduate.

Co-op employment

Our co-op program gives students the chance to work on innovative projects and real-world work assignments while taking a temporary break from coursework for an A.S., B.S., M.S. or Ph.D. degree. We hope that after graduation, these students will apply to join us as employees.

Summer engineering projects

Our Summer Engineering Projects Program (SEPP) gives students a unique opportunity to make a difference. Student teams are paired with dedicated mentors to complete engineering projects that have specific milestones and deadlines. Available to interns at junior, senior and graduate levels, the program gives students great experience while helping us meet business needs.

Software engineering at Rockwell Collins

Software Engineering is involved with all aspects of what we create here. From highly coupled application software, to internally designed tools, to user-interface design, to complicated integrated communication and networking solutions, our software experts design, test and deploy code that’s powerful and robust.

Opportunities for new grads
Careers

Federal Government
- National Weather Service (NWS)
  - Hurricane Center
  - Storm Prediction Center
120 offices across the country

Commercial Organizations
- Airlines
  - Electrical Power Companies

Media
Broadcast Meteorologist
- The Weather Channel
- CNN
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