

Associate Professor/ **Project Scientist**



When I was about five, around the time the space program began, my father taught me the constellations and I was very inspired. I went crazy about it!

What helped prepare me for this job:

In the 7th grade, I found a book called Habitable Planets for Man by Stephen Dole. It discussed which nearby stars might have habitable planets. It helped me make the connection between science fiction and real science and inspired me to study astronomy in graduate school.

My role models or inspirations:

I've been inspired by astronauts like John Glenn as well as science fiction authors like Carl Sagan.

My education and training: · B.S., Physics, Massachusetts Institute of Technology

Ph.D., Astrophysics, University of Hawaii

My career path:

- · Post-doctoral researcher at Kitt Peak National Observatory for four years
- · Post-doctoral researcher at NASA Ames Research Center for two
- · Professor of physics and astronomy at Franklin and Marshall College for eight years

What I like about my job:

I love working on something I've always wanted to study and getting paid for it.

What I don't like about my job:

I don't have nearly enough time to do everything I want.



Dr. Dana Edward Backman

Project Scientist

NASA Ames Research Center Associate Professor

Franklin and Marshall College

For eight months of the year, I work at NASA Ames, preparing a master database on nearby stars that other astronomers can use. The remaining four months, I teach at a small private college in Pennsylvania.

Areas of expertise:

- Planet formation
- Nearby stars

My advice to anyone interested in this occupation:

There isn't anything you don't need to know. Soak up everything! Take lots of English courses. Remember: persistence is more important than intelligence, so don't give up!

Additional Resources:

- American Institute of Biological Sciences http://www.aibs.org
- American Physiological Society http://www.faseb.org/aps
- American Society for Biochemistry and Molecular Biology http://www.biophysics.org/biophys/society/biohome.htm
- American Society for Microbiology http://www.asmusa.org
- Astrobiology Summer Academy http://academy.arc.nasa.gov/
- Biotechnology Industry Organization http://www.bio.org/welcome.html
- Education Pays Calculator http://www.educationpays.org/calc.asp
- Earth to Orbit: Engineering Design Challenges http://eto.nasa.gov/
- Graduate Student Researchers Program http://spacelink.nasa.gov/Instructional.Materials/NASA.Educa tional.Products/Graduate.Student.Researchers.Program.Brochur e/.index.html
- MATHCOUNTS Competition http://mathcounts.org/
- Minority University Research and Education Programs http://mured.nasaprs.com/
- NASA Cooperative Education Program for college students http://spacelink.nasa.gov/Educational.Services/

http://spacelink.nasa.gov/Educational.Services/ NASA.Education.Programs/Student.Support/NASA.Cooperative .Education.Program/.index.html

- NASA Jobs http://nasajobs.nasa.gov/
- NASA Office of Life and Microgravity Sciences and Applications
 http://www.hq.nasa.gov/office/olmsa/
- NASA SHARP Internship Program for high-schoolers http://www.mtsibase.com/sharp/
- NASA Student Employment http://nasajobs.nasa.gov/stud_opps/employment/index.htm
- NASA Student Involvement Program student contests http://www.nsip.net/index.cfm
- Order NASA career videos such as "Engineers: Turning Ideas into Reality," "Careers: Aerospace Engineer" or "Reaching for the Stars" from NASA CORE. http://core.nasa.gov
- Revolutionary Vehicle Concepts and Systems student competition http://avst.larc.nasa.gov/competitions.html
- Student's Guide to Astrobiology http://www.astrobiology.com/student.html
- Tech-Interns.com http://www.tech-interns.com/

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