



NASA's Glenn Research Center is proud to sponsor a **Bio-inspired Research and Development (BIRD) Fellow** for a **PhD-seeking graduate student** through a Biomimicry Fellowship in the University of Akron's Integrated Bioscience PhD Program in collaboration with Great Lakes Biomimicry (GLBio). The fellowship period begins in **August 2017 (applications will be reviewed until the position is filled)** and is renewable annually based on performance assessments based on mutually agreed upon standards.

The field of biomimicry offers application opportunities in a variety of disciplines including paleontology, entomology, anthropology, chemistry, chemical, mechanical and aerospace engineering, polymer science, and biology.

We are looking for a highly motivated student who is interested in the field of biomimicry and its application to solve real world problems in the aerospace industry. The position will be sponsored by NASA's Glenn Research (GRC) in Cleveland, Ohio, and the successful applicant will interact with collaborating scientists and engineers at NASA and The University of Akron, and will work at GRC, supervised by a NASA scientist.

The focus area of interest to NASA includes multifunctional structures and hybrid electric propulsion for N+3/N+4 (N is current generation) aircraft. The prospective student must have a background in biology. Additional background in either electrochemistry or structural engineering is preferred.

This is a great opportunity for a student to gain industrial experience and make a difference while completing a graduate degree. If you are interested in learning lessons from nature and having an opportunity to apply those lessons to solve real world problems, please apply to this program. For more information about NASA GRC, please check our [website](http://www.nasa.gov/centers/glenn/home/index.html) at [www.nasa.gov/centers/glenn/home/index.html](http://www.nasa.gov/centers/glenn/home/index.html).

### **About NASA's Glenn Research Center**

NASA's Glenn Research Center in Cleveland, Ohio, researches, designs, develops and tests innovative technology for aeronautics and spaceflight. We design game-changing technology for spaceflight that enables further exploration of the universe. We create cutting-edge aeronautical technology that revolutionizes air travel.

NASA's Glenn Research Center is one of four NASA research centers. Glenn is an essential component of NASA and an integral contributor to the region.

Glenn:

- Has a decades-long tradition of excellence in aeronautics and spaceflight
- Makes key contributions in supporting NASA missions

- Is a vital element of the economy of the region
- Partners with local and national businesses
- Collaborates with colleges and universities
- Makes significant contributions to the research, design, development and testing of technology
- Shares the NASA message at schools, fairs and events around a six-state region:
  - Ohio, Indiana, Michigan, Illinois, Wisconsin, Minnesota
- Promotes science, technology, engineering and mathematics (STEM) education

NASA Glenn's core competencies are

1. Air-Breathing Propulsion
2. Communications Technology and Development
3. In-Space Propulsion and Cryogenic Fluids Management
4. Power, Energy Storage and Conversion
5. Materials and Structures for Extreme Environments
6. Physical Sciences and Biomedical Technologies in Space



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The focus area of interest to NASA involves the intersection between paleontology, entomology and aerospace. The student will work with the Cleveland Museum of Natural History to help understand the applications of extinct species and extant insects to aerospace. The experience will include work with data mining and data analytics in addition to working with wind tunnels and developing proposals for long term aerospace concepts.

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