



DEPARTMENT OF THE ARMY
 WALTER REED ARMY INSTITUTE OF RESEARCH
 WALTER REED ARMY MEDICAL CENTER
 WASHINGTON, D.C. 20307-5100



13 November 2001

IN REPLY REFER TO:

[Redacted]

Office of the Under Secretary of Defense
 (Acquisition, Technology & Logistics)
 ATTN: Acquisition Resources & Analysis/Peggy Rock
 Room 3E1025, Pentagon
 3020 Defense
 Washington, DC 20301-3020

Dear Sir:

[Redacted] is a member of my laboratory in the Department of Immunology at the Walter Reed Army Institute of Research in Silver Spring, MD. Our mission is to develop vaccines that will protect U.S. soldiers against infection by *Plasmodium falciparum* malaria parasites. Because of the impact that malaria infection has on military operations, this is the highest ranked, most visible program among the infectious diseases that are important to the DoD. It is staffed by highly trained scientists who specialize in all aspects of infection biology and immunology as well as parasitology, molecular biology, and model systems for malaria infection.

During his time in my laboratory, [Redacted] has been instrumental in the development, preparation, and characterization of a malaria vaccine designed to protect soldiers from malaria disease. Typically this type of work requires an extraordinary investment of time and energy, with no guarantee of success. [Redacted] has proven that he is one of only a handful of individuals who would be willing to make this type of commitment. He is uniquely qualified to perform this work owing to the doctoral training that he received at the [Redacted] where he studied the parasitology of erythrocytic stage malaria infections in non-human primate and rodent models. His doctoral work resulted in several publications and presentations made to international immunoparasitology meetings. Since joining my laboratory, [Redacted] has acquired further training in immunology and molecular biology, which when combined with his knowledge of malaria parasitology make him uniquely qualified to perform research in malaria vaccine development and analysis.

[Redacted] continued involvement is vital to the success of this program. The next phase of this work involves pre-clinical evaluation of the quality of this product. As the Department of Immunology's only professionally trained parasitologist, [Redacted] continued close involvement with this project is crucial to successful pre-clinical testing and analysis of this malaria vaccine candidate. Please consider carefully our request for waiver of [Redacted]s two-year residence requirement.

Sincerely,

[Redacted Signature]

Signature authority must be at Senior Executive Service (SES) or General Officer level



OFFICE OF THE
DIRECTOR

DEPARTMENT OF THE AIR FORCE
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
801 N. Randolph St., Arlington, Va. 22203-1977

26 October 2001

Office of the Under Secretary of Defense (Acquisition,
Technology & Logistics)
ATTN: Mrs. Peggy Rock
Acquisition Resources & Analysis
Room 3E1025, Pentagon
3020 Defense
Washington, DC 20301-3020

Dear Mrs. Rock

Per your request, I am sending you this letter relative to [REDACTED] who has been working on a basic research project funded by US Air Force under Grant [REDACTED] at [REDACTED] [REDACTED] regarding micromechanics of interface in advanced composite systems, for his J-1 waiver application.

The successful development and application of advanced materials are critical to reaching the goals of many advanced aerospace propulsion and power development programs. Due to their increased temperature capabilities and relatively lower densities, advanced materials can enhance the performance of these systems by allowing higher flight speeds, expanded flight ranges, and increased payload capabilities; therefore, they are widely recognized as the potential candidates needed for future systems, ranging from advanced subsonic aircraft engines to future space propulsion and power systems.

Composites have emerged as a primary option for new materials. The key to the successful application of composites is understanding the mechanical characteristics of fiber-matrix interfaces, because the nature of the interfaces in composites can influence various aspects of their performance. [REDACTED] research seeks to understand the mechanics of the heterophase interface. The objectives are to develop a generic methodology for characterizing interfaces and to establish a link between interface properties and macromechanical response. The technical approach in this program utilizes the experimental capabilities at [REDACTED] and computational facilities at [REDACTED]. Potential payoffs from this research include enhancing the safety of aircraft and automobile structures and increasing the payload and reducing the fuel consumption for aerospace vehicles. These payoffs serve our national interests in energy conservation, environmental protection, safety, and economics.

[REDACTED] responsibility for this project is to perform computational simulation. I learned from the reference letters of his employer and school that [REDACTED] has made significant contributions in developing predictive methods for composite damage and fracture, interfacial mechanics, and computational mechanics. In future research activity to be supported by the Air Force, [REDACTED] will study the micromechanics and micromechanisms of interfacial fracture and failure of composite systems to explain and characterize macroscopic mechanical behavior from the microscopic level.

The Basic Research Manager of the Air Force Research Laboratory

This research project is theoretically and computationally challenging, requiring an individual with a strong background in solid mechanics, computational methods, non-linear methods and others. [REDACTED] presence is required for the completion of the project; therefore, I support his waiver application for [REDACTED]. Your favorable consideration would be greatly appreciated.

Sincerely

[REDACTED]