NSBRI Announcement
Soliciting Team Leadership Applications

A Request for Applications for the
National Space Biomedical Research Institute

Applications Due: February 12, 2008
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NSBRI Request for Applications Soliciting
Team Leadership Applications

Summary of Opportunity

This National Space Biomedical Research Institute (NSBRI) Request for Applications (RFA) solicits proposals for Team Leadership positions. Each of the NSBRI science and technology teams consists of a set of complementary projects focused on a common research theme. Team Leaders are responsible for team management, coordination and integration. A single Team Leader, assisted by an Associate Team Leader, heads each science and technology team and is responsible for developing and implementing the team’s strategic plan, in partnership with NSBRI senior management and NASA.

Eligible applicants to this NSBRI-RFA, whether as Team Leader or Associate Team Leader, must have at least one of the following:

- A currently funded NSBRI research grant that expires no sooner than January 1, 2009;
- An application for an NSBRI research grant that is currently pending (e.g., the applicant for Team Leadership has submitted a Step-2 proposal in response to the NSBRI portion of NRA NNJ07ZSA002N, “Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions.”)

The term of the award is for a maximum of four years. It requires simultaneous funding of an NSBRI research grant. Team Leadership awards are competitively renewable. It is not necessary to respond to this NSBRI-RFA to become an Associate Team Leader (see Appendix B).

Awards are funded at an amount of $80,000 total costs per annum for Team Leaders and $40,000 total costs per annum for Associate Team Leaders. A budget is not necessary for completion of an application.

In this NSBRI-RFA,

- Appendix A provides a description of the opportunity and instructions for proposal submission;
- Appendix B contains the NSBRI Policy on Team Leadership.

The following items apply only to this NSBRI-RFA:

- **Solicitation NSBRI-RFA Identifier:** NSBRI-RFA-08-01
- **Application Format Required:** Electronic application by email to the Office of the NSBRI Associate Director
- **Proposals Due:** February 12, 2008, 5 p.m. CT
- **Funding Begins:** May 1, 2008
- **Selecting Official:** NSBRI Director
Information about the NSBRI and its existing programs is available from:

Associate Director
National Space Biomedical Research Institute
One Baylor Plaza, NA-425
Houston, TX 77030-3411
Telephone: 713-798-7412
Fax: 713-798-7413
Email: director@www.nsbri.org

Your interest and cooperation in participating in this effort are appreciated.
NSBRI Request for Applications Soliciting Team Leadership Applications

NOTE: It is important for applicants to read carefully all of the instructions in this NSBRI-RFA. The appendices include guidelines, requirements and policies concerning Team Leadership. They contain instructions for preparing and submitting proposals, and define the administrative procedures governing the particular components described in this NSBRI-RFA.

I. Introduction

NSBRI is a NASA-supported, nonprofit research consortium charged with developing countermeasures for potential biomedical problems associated with human spaceflight. NSBRI’s current science and technology program, aligned with the Vision for Space Exploration, consists of approximately 60 projects organized into research teams. Details concerning NSBRI can be found at www.nsbri.org.

Team Leaders and Associate Team Leaders play a pivotal role in leading the research teams, guiding the Institute’s programs, and helping to ensure the ultimate success of the Institute. Their expertise and “hands-on” approach to science management adds value across projects and across teams. Team Leadership is guided by the Institute’s Strategic Plan and by NASA Human Research Program needs and requirements. The stature and reputation of Team Leaders and Associate Team Leaders encourage other scientists to apply to become team members, and NSBRI Team Leadership plays an important role in facilitating productive interactions between NASA investigators and those in the biomedical community at large. Team Leadership is charged with adding value to their teams by enabling appropriate synergies to advance the mission of NSBRI and its partnership with NASA.

NSBRI invites applications to lead an existing team in one of ten areas:

1. *Bone Loss* – Addressing bone loss and weakening during spaceflight, and the inherent fracture risks.
2. *Cardiovascular Alterations* – Determining the effect of long-duration spaceflight on the heart and blood vessels and designing novel therapies to combat prolonged deconditioning.
5. *Neurobehavioral and Psychosocial Factors* – Investigating methods and tools that can be utilized to enable crews to cope with stress, isolation and compatibility.
6. Nutrition, Physical Fitness and Rehabilitation – Developing methods to maintain health and fitness before, during and after spaceflights.
7. Radiation Effects - Determining the risks various types of radiation have for deleterious consequences, with an emphasis on acute effects, and mitigating these effects through countermeasure development, including pharmaceutical and nutritional interventions.
8. Sensorimotor Adaptation – Addressing the problems of space motion sickness and disorientation during flight and the postflight problems of balance and gaze disorders.
10. Technology Development – Developing small, low-power, and noninvasive instrumentation and other technological products to address physiological problems and research needs.

II. Award Information and Eligibility

This NSBRI-RFA is open to all applicants who meet at least one of the following criteria:

- Principal investigator on a currently funded NSBRI research grant that expires no sooner than January 1, 2009;
- Principal investigator on an NSBRI research application that is currently under review for funding (e.g., the applicant for Team Leadership has submitted a Step-2 proposal in response to the NSBRI portion of NRA NNJ07ZSA002N, “Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions.”)

The term of the award is for a maximum of four years. A Team Leadership award requires simultaneous funding of an NSBRI research grant. Team Leadership awards are competitively renewable. It is not necessary to respond to this NSBRI-RFA to become an Associate Team Leader.

Team Leadership awards are funded at an amount of $80,000 total costs per annum for Team Leaders and $40,000 total costs per annum for Associate Team Leaders.

III. Application Procedures

Applications are to be submitted electronically as a pdf or Word document. There should be one-inch margins on all four paper edges and use of a standard 12 pt font, such as Times New Roman. On the first page, include the title “NSBRI-RFA-08-01 Team Leadership Application” and the name of the team(s) that you are applying to lead. Include your name on all pages of the document.

Divide the document into four sections labeled according to the following questions:

1. What is your motivation to apply for and commitment to serve in an NSBRI Team Leadership position?
2. What is your vision for the team for the next five years?
3. What previous scientific experience qualifies you for a Team Leadership position?
4. What previous management experience qualifies you for a Team Leadership position?

The application consists of your answers to these questions, wherein each section has a character limit of 2,500 characters (not including the characters in the question itself). Responses that exceed this limit will be truncated at 2,500 characters prior to being forwarded for review.

It is optional to specify whether you are applying for a Team Leader position and/or an Associate Team Leader position.

Completed applications must be submitted electronically by 5:00 p.m. CT, Tuesday, February 12, 2008. Applications are to be sent to Ms. Elizabeth Berry, Assistant to the Associate Director, at eberry@bcm.edu. Acknowledgement of your submission will be sent to you electronically.

Please direct questions concerning this application procedure to Ms. Berry, who can be reached by email at eberry@bcm.edu or by calling 713-798-7412.

IV. Review and Selection Process

Only complete applications will be considered for review. The four sections of the application will be discussed by members of the Institute’s External Advisory Council (EAC) using the criteria set forth in the NSBRI Policy on Team Leadership (Appendix B). Each section will carry equal weight. The EAC will make recommendations concerning Team Leadership for each team. These recommendations will be discussed with senior management of NSBRI and of the NASA Human Research Program, prior to selection by the NSBRI Director.
I. Overview

Each team in the science and technology program of NSBRI is led by a single Team Leader who is assisted by an Associate Team Leader. Team Leaders and Associate Team Leaders play a pivotal role in leading the research teams, guiding the Institute’s programs, and helping to ensure the ultimate success of the Institute. Their expertise and “hands-on” approach to science management adds value across projects and across teams. Team Leadership is guided by the Institute’s Strategic Plan and by NASA Human Research Program needs and requirements. The stature and reputation of Team Leaders and Associate Team Leaders encourage other scientists to apply to become team members, and NSBRI Team Leadership plays an important role in facilitating productive interactions between NASA investigators and those in the biomedical community at large. Team Leadership is charged with adding value to their teams by enabling appropriate synergies to advance the mission of NSBRI and its partnership with NASA. In particular, Team Leadership is expected to actively facilitate working relationships with relevant discipline leads within the NASA Human Research Program at Johnson Space Center.

II. Duties and Responsibilities

Team Leaders are responsible for:

- Preparing and periodically updating the Team Strategic Plan, which is aligned with the Institute mission, NASA priorities, and available resources;
- Working with team investigators on projects that ensure scientific and operational synergy and lead to productive countermeasure development;
- Maintaining appropriate communication links among team investigators and other Team Leaders;
- Reporting team progress to NSBRI senior management, the Institute’s External Advisory Council (EAC) and the Board of Scientific Counselors (BSC);
- Coordinating team activities with NASA scientists, engineers, physicians and other personnel, and pursuing involvement with NASA operational activities;
- Disseminating knowledge about team progress to NASA, the scientific community, and the general public;
- Nurturing opportunities and seeking funding support for collaborative team efforts;
- Acting as the senior NSBRI representative in the team’s discipline.

Team Leaders report to the NSBRI Associate Director.

Associate Team Leaders assist Team Leaders in carrying out the above activities.
III. Qualifications

Team Leaders are NSBRI-funded principal investigators who possess the following qualifications:

- Intermediate or senior rank at a recognized research facility or educational institution;
- Demonstrated record of securing independent competitive research funding for the last five years;
- Recognized within the biomedical community as an outstanding research contributor;
- Manifest broad scientific understanding across the team’s research area (prior involvement with a NASA flight investigation is beneficial);
- Demonstrated leadership and program/group management skills, as evidenced by service as a section head, department chair, dean, research center director, or principal investigator on a program project;
- Exhibit good communication, public speaking, and organizational skills;
- Show a willingness and availability to spend the time and energy necessary to fulfill the role of Team Leader.

Associate Team Leaders are principal investigators on NSBRI-funded projects who possess at least the first four of the above qualifications required for a Team Leader. Generally, Team Leaders and Associate Team Leaders are not from the same institution.

IV. Term of Service

Team Leaders are appointed by the Director for a term that corresponds with the term of their NSBRI-funded research project (generally four years), subject to satisfactory performance as determined by their annual performance review. The Team Leader appoints an Associate Team Leader for a term that does not exceed the Team Leader’s term of service. The Team Leader’s term is competitively renewable.

V. Funding and Authority

Team Leaders and Associate Team Leaders are provided with discretionary funds to enable them to carry out team duties and responsibilities. Latitude is provided concerning the expenditure of these funds within the guidelines of the involved institutions. Such funds may be used for support personnel, team meetings, special travel, and other expenses generally associated with team communication and operations. However, these funds may not be used to support research.

Team Leaders are ultimately responsible for carrying out the duties and responsibilities listed in Section II. They are expected to work cooperatively with their Associate Team Leader in all matters and should develop a clear understanding of the distribution of their shared responsibilities.

VI. Selection

In the period before the term of service of Team Leaders ends, an NSBRI Announcement Soliciting Team Leadership Applications will be released. Applications will be reviewed, and
recommendations made, by the EAC. The recommendations will be discussed with NSBRI
senior management and NASA, prior to the selection of Team Leaders by the NSBRI Director.

Candidates for Associate Team Leader may apply to the NSBRI Announcement Soliciting Team
Leadership and/or be nominated by the Team Leader. Selection is by the Team Leader, and
requires approval from NSBRI senior management.

In selection of Team Leaders and Associate Team Leaders, attempts will be made to balance the
scientific and managerial expertise of candidates and to develop diversity within the Institute’s
research leadership.

VII. Training and Support

To assist Team Leaders in performing their duties, NSBRI provides electronic reporting and
managerial tools, along with training as needed. There is a monthly teleconference of Team
Leadership with senior management, liaisons and key headquarters staff. Forums are held at
various times each year for Team Leadership to meet as a group with the Director and Associate
Director.

VIII. Performance Evaluation

Team Leader performance is assessed as follows:

- Annually, the BSC assesses each team, taking into account the annual team report of
  productivity and progress, and the Team Leader evaluations completed by members of
  the team. The BSC provides feedback on the team and its leadership;
- Semi-annually, the EAC reviews the effectiveness of the Team Leader in communicating
  the team vision and successes, and in discussing and handling team issues;
- Senior management, with input from NASA, periodically reviews Team Leader
  performance with the EAC, and formally assesses performance annually, prior to making
  non-competitive renewals of Team Leader awards;
- Every five years, an external committee appointed by NASA conducts a major review of
  NSBRI, including performance of Team Leaders.

Associate Team Leaders are evaluated annually by Team Leaders and senior management for
contributions to their team and effectiveness in assisting the Team Leader.

In instances where Team Leader or Associate Team Leader performance needs improvement, the
Associate Director, in consultation with the Director, will work constructively to remedy the
situation.

IX. Conflict of Interest

Team Leaders and Associate Team Leaders must adhere to the highest ethical standards as they
carry out their leadership duties on behalf of NSBRI and NASA. They must conduct all
leadership duties with integrity, fairness and objectivity to ensure the scientific credibility of
their team and the Institute.