

## ONE-HEALTH RESEARCH FELLOWSHIPS IN PAKISTAN FELLOWSHIP APPLICATION

### Description of the Fellowship

This fellowship project aims to establish collaborative research/educational opportunities between early to mid-career investigators, their research mentors or institution directors from Pakistan and U.S. experts in One Health (1-H) currently working in countries with similar disease burden to Pakistan.

The 12-month fellowship program will be initiated by a one-week planning symposium in early March 2016 attended by the program's oversight committee, U.S. affiliated and Pakistani mentors, and the fellows. This symposium will be structured to maximize collaborations among the participants. During that week, mentors and fellows will develop their research plan, taking advantage of the multidisciplinary aspect of the proposed projects, and will together establish clear goals and deliverables.

Following this initial meeting, each fellow will visit his/her U.S. affiliated mentor's institution for up to 5 months, and will continue their research project for the next 7 months upon return to Pakistan.

### Criteria and proposal requirements

**Applicants:** Up to 6 faculty candidates at early career to mid-career level will be selected.

**Teams:** 1-H research collaborations are by definition interdisciplinary, and should be able to incorporate human, animal, and environmental health expertise. Thus, applicants should consider applying in teams of 2-3 individuals with complementary expertise around a common project with the understanding that they may or may not be assigned to the same host institution for the overseas portion of the fellowship program.

**Types of Projects:** Applicants should propose a project with "One Health" dimensions, ideally one that involves human, animal, and environmental health aspects.

Possible topics could include (but are not limited to):

- 1) A study of the emergence of a zoonotic disease related to environmental change.
- 2) A study of an intervention to improve animal food production while keeping workers and animals healthy and promoting environmental resilience/sustainability.
- 3) Study of surveillance data for zoonotic diseases, encompassing human and animal populations.
- 4) Studies of animal workers and the risks of disease crossing between humans and animals.
- 5) Studies of vaccines or medications for zoonotic diseases, especially in systems where vaccines are used to control the disease in both humans and animals.
- 6) Studies of environmental interventions to reduce disease risk.
- 7) A study of a zoonotic disease that is affecting people and animals.

## Limitations

Due to the time allocated for the fellowship and limitations faced by potential host institutions, research topics involving manipulation or handling of pathogens under high containment at the host institution (i.e., Biosafety level 3 or higher) will not be eligible for this program.

Applicants are also reminded that proposals involving live animals or research with human participants may be required to undergo ethical review at both the applicant's home institution in Pakistan as well as the host institution overseas.

## Support

The U.S. National Academy of Sciences will support all travel, research supply and living expenses while travelling outside of Pakistan.

## **Application package**

1. Statement of Work (SOW): A two-page SOW (not including references) should be prepared with the following information:
  - a. Overview/background and justification for the project
  - b. Overall goals of the project, including a description of:
    - i. How your research could build capacity for new methods, systems, or approaches in Pakistan.
    - ii. What will be the greatest impact of your research?
    - iii. Who or what will be most greatly affected?
  - c. Specific objectives (2-3)
  - d. Estimated timeline for accomplishment of objectives (no more than 1 year)
  - e. Relevant past and current work that would support the proposed project. If applying as a team, please make your field of expertise and current relevant projects clear, describe how your role in the project interfaces with the others in the team, how that expertise will fit into and complete the overall project, and explain how your skills might benefit the host laboratory.
  - f. Plans for follow-on work and maintenance of collaboration after project's end
2. Personal Statement: In one-page you should state the relevance of this project and training to your overall professional development. Your statement should also include examples of an accomplishment you believe demonstrates your leadership skills and ability to work within a team. Finally, it should describe how you foresee using the proposed project and your skills to sustain collaborations with your colleagues in Pakistan and U.S. affiliated mentors in the future.
3. Curriculum vitae: A 2 page resume (using the NIH format) with three named referees and their contact details should be included with the application (See appendix 1 for format and example).

**APPLICATION DEADLINE: 9 JANUARY 2016**

PLEASE SUBMIT QUESTIONS & MATERIALS TO

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