Post-doctoral Position  
Donald Danforth Plant Science Center  
St Louis, Missouri

Background
A post-doctoral position is available immediately in the laboratory of Dr. Dilip Shah for conducting research on plant-fungal interactions. My laboratory studies small cysteine-rich antifungal defensins and defensin-like peptides that have been implicated in the innate immune system of plants. The current studies in the lab are focused on understanding structure-function relationships and modes of action of antifungal defensins and defensin-like peptides. Research is also conducted in my lab on examining the potential of antifungal peptides for genetic engineering of disease resistant crops.

Position
The selected candidate will work on mechanisms of action of antifungal proteins defensins and defensin-like peptides. The project also involves protein engineering to increase the antifungal activity of these peptides and expressing these peptides in transgenic plants for enhanced resistance to fungal and oomycete pathogens. Experience with fungal pathogens is highly desirable, but not essential.

Requirement
Candidates with expertise in biochemistry, molecular plant pathology, plant molecular biology are encouraged to apply. This is a great opportunity to participate in an interdisciplinary and collaborative research program at a not-for-profit research center with state-of-the-art equipment.

Salary offered will be commensurate with degree and years of experience. Excellent benefits package is provided.

Applicants should send a cover letter, statement of research interests and CV including the names of three references to:

Dr. Dilip Shah  
Donald Danforth Plant Science Center  
975 North Warson Road  
St Louis, MO. 63132  
Email. dshah@danforthcenter.org  
Ph. 314-587-1481