



Postdoctoral position in plant cell biology
Department of Biology
Washington University in St. Louis, USA

Description: One postdoc position is available in the Dixit laboratory in the Biology Department at Washington University in St. Louis. The lab studies how the microtubule cytoskeleton and associated proteins confer cell shape and how hormones and mechanical stimuli impact these activities to enable plants to adapt to changing conditions. The successful candidate will lead projects to elucidate mechanisms underlying functional specialization of microtubule bundling proteins and the mechanism of activity of a new class of microtubule minus-end regulator. The candidate must be self-motivated, independent and have excellent written and oral communication skills.

Funding is available for 4 years, with the expectation that the candidate will work with Dr. Dixit to apply for fellowships during this time. Washington University in St. Louis offers a complete benefits package and competitive salary based on the NIH postdoctoral rate.

The Dixit lab is a highly collegial and collaborative environment consisting of researchers pursuing a broad range of projects in the areas of cell biology, biochemistry, biophysics, and developmental biology. We have ready access to superb facilities on the main campus, Washington University School of Medicine, and the Danforth Plant Science Center. We are also part of a multi-institution NSF-funded Science and Technology Center for Engineering Mechanobiology (<https://cemb.upenn.edu>) with wide-ranging expertise in biology and physical sciences. People in the lab have the freedom to pursue research that excites them and to obtain the professional and technical training needed for their career goals. Postdocs are encouraged to develop their own research projects that they can take with them. There are opportunities to gain classroom teaching experience and mentoring experience in the lab. In addition, large companies such as Bayer, Sigma-Aldrich, and Pfizer and many smaller biotech companies are nearby. We are committed to inclusion and diversity and welcome candidates from all cultural, scientific, and socio-economic backgrounds. For more information about the lab and recent publications, please visit <https://sites.wustl.edu/dixitlab/>.

Washington University in St. Louis offers a diverse array of career and professional development opportunities through the Career Center, Teaching Center, Office of Postdoctoral Affairs, and campus groups. The St. Louis region provides a wonderful living environment with numerous cultural, sporting, and recreational activities. Additional information on being a postdoc at Washington University in St. Louis can be found at <https://postdoc.wustl.edu/prospective-postdocs>.

Requirements

- About to complete or have completed a PhD within the last 1-2 years in cell biology, biochemistry, biophysics, genetics, or related field.
- Demonstrated productivity in the form of peer-reviewed publications.
- Proficiency in general molecular and protein biochemistry techniques.
- Experience with fluorescence microscopy and quantitative image analysis will be highly preferred.
- Experience with Arabidopsis plants and/or TIRF microscopy is desirable but not required.

Application Instructions: Qualified candidates should email their application to Ram Dixit (ramdixit@wustl.edu) as a single pdf containing:

- 1) Cover letter detailing research interests and long-term career goal
- 2) CV
- 3) Copies of three relevant publications
- 4) Names and contact information of three faculty references who can provide letters of recommendation upon request.

Applications will be accepted until suitable candidates are hired.