



**Post Doctoral Scholar
Department of Food Science
College of Agricultural Sciences
Penn State**

Job Number: 80471

Link to Job on Job Website: <https://psu.jobs/job/80471>

Department: Food Science

Work Unit: College of Agricultural Sciences

Announce Start Date: 07/16/18

Closing End Date: Until Filled

University has an NIH-funded postdoctoral position available to investigate the role of non-pathogenic *E. coli* in modulating Shiga toxin production by *E. coli* O157:H7. Previous (*Infect. Immun.* 83:418; <https://doi.org/10.3389/fmicb.2018.01325>) and unpublished studies have identified several mechanisms driving this process. By leveraging the >80,000 isolates cataloged in Penn State's *E. coli* Reference Center (<http://foodscience.psu.edu/research/centers/ecoli>), the project goals are to mechanistically define known processes and to identify new ones. The Dudley lab is located in the Department of Food Science and is one of several labs there applying tools of molecular biology and genomics in food safety research. Penn State has excellent core facilities including genomics, proteomics and mass spectrometry, and metabolomics, and the Huck Institutes of the Life Sciences maintains a campus-wide culture of excellence in infectious disease research. Applicants are required to have a Ph.D. or equivalent doctorate in an appropriate field. The candidate should have a Ph.D. with a strong background in bacterial genetics and/or biochemistry, and experience with microbial infectious disease agents. Leadership skills and a willingness to leverage expertise in collaborative projects with graduate students and postdoctoral fellows are expected. Penn State is located in central Pennsylvania within the Nittany Valley. The region enjoys the advantages of a mid-sized college town, with outdoor activities including hiking, mountain and road biking, and world-class trout fishing within minutes of campus. Interested candidates should submit a CV, letter summarizing research interests and career goals, and contact information for three references.

Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.