

# California State University, Fresno Foundation

## POSTDOCTORAL RESEARCH ASSOCIATES IN INSECT GENE EDITING AND GENOMICS – JORDAN COLLEGE OF AGRICULTURAL SCIENCES AND TECHNOLOGY

JOB ANNOUNCEMENT #25-684

<b>POSITION SUMMARY:</b>	<b>Full-time, benefited positions with the Jordan College of Agricultural Sciences and Technology through the California State University, Fresno Foundation.</b> Two Postdoctoral Research Associates in insect transgenics will be engaged in research to establish a CRISPR mediated gene modification program for navel orangeworm ( <i>Amyelois transitella</i> ). Research will be performed under the joint direction of California State University, Fresno and USDA scientists at the San Joaquin Valley Agricultural Sciences Center, through the California State University, Fresno Foundation.
<b>ESSENTIAL JOB FUNCTIONS:</b>	The responsibilities of this position include, but are not limited to: <ul style="list-style-type: none"> <li>• Maintenance of laboratory colonies of navel orangeworm</li> <li>• Optimization of insect egg collection and microinjection protocols</li> <li>• Design and construction of RNA/DNA constructs for CRISPR mediated gene knockout and rescue</li> <li>• Phenotyping of adult and larval insects including eye and wing pigmentation</li> <li>• Basic molecular biology assays to verify genetic transformations</li> <li>• Insect dissection and body fluid extraction</li> <li>• Transcriptomic and proteomic analyses</li> <li>• Assessment of insect fitness parameters including: longevity, egg laying, and egg survival rates</li> </ul>
<b>QUALIFICATIONS &amp; EXPERIENCE:</b>	<i>To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.</i> <ul style="list-style-type: none"> <li>• PhD in the entomology, molecular biology, genetics or a related biological discipline, with emphasis on application (ABD Considered)</li> <li>• Experience with the observation and quantification of insect fitness</li> <li>• Experience with rearing and handling of insects</li> </ul> <p><b>Other Skills and Abilities:</b></p> <ul style="list-style-type: none"> <li>• Ability to work independently and collaboratively without direct supervision</li> <li>• Exceptional verbal and written communication skills</li> <li>• Proficiency in scientific writing and presentation</li> <li>• Language fluency in English</li> <li>• Familiarity with literature relating to assessment of biocontrol fitness and field competence</li> </ul>
<b>COMPENSATION:</b>	<b>\$5,834.00 per month.</b> Benefits include medical, dental, vision and life insurance, vacation, sick leave and holiday pay.
<b>DEADLINE:</b>	<b>Application review begins on <u>April 1, 2025</u>; Open until filled.</b>
<b>TO APPLY:</b>	Please visit the Auxiliary Human Resources page at <a href="https://auxiliary.fresnostate.edu/association/hr/employment-opportunities.html">https://auxiliary.fresnostate.edu/association/hr/employment-opportunities.html</a> for job announcement and application.  E-mail completed application & resume to: <a href="mailto:auxiliary-hr@mail.fresnostate.edu">auxiliary-hr@mail.fresnostate.edu</a>

## RESUMES WILL NOT BE ACCEPTED WITHOUT A COMPLETED APPLICATION

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Employment for this position is by the California State University, Fresno Foundation. This is not a State of California position.*

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