



**Title:** Research Assistant, Molecular-Assisted Breeding  
**Reports To:** Scientist  
**Department:** Marker Assisted Breeding  
**Division:** Research & Development

---

Nunhems USA, Inc., a world leader in the development, production and marketing of hybrid vegetable seed and seed technology, is currently seeking a ***Research Assistant, Molecular-Assisted Breeding*** to be based in Davis, California. This position has an emphasis in classical genetics and molecular genetic linkage and QTL mapping approaches and will function in the marker-assisted breeding program under the supervision of the scientist.

#### ESSENTIAL FUNCTIONS:

- Perform routine and advanced laboratory work, including nucleic acid isolation, PCR, agarose and polyacrylamide electrophoresis, data analysis and interpretation
- Perform plant tissue sample collection and other greenhouse-related duties necessary for marker development
- Development of new molecular markers and genetic linkage maps
- Perform quantitative trait loci (QTL) mapping
- Facilitate marker-assisted selections
- Evaluate and incorporate emerging marker-related technologies into existing program
- Management of assigned outsourced projects
- Supervision of temporary labor and lab technicians
- Carry out other activities and responsibilities as directed

#### EDUCATION AND EXPERIENCE REQUIREMENTS

Candidates must possess a Masters degree in biology, genetics, molecular biology, plant breeding or a related field with experience of at least 1 to 3 years in a research laboratory. Candidates with a Bachelors degree in the above fields with suitable practical experience will be considered

#### JOB KNOWLEDGE AND SKILLS

- Practical experience in DNA marker applications (i.e. AFLPs, SSRs, SNPs, etc.)
- Background emphasis in genetics, physical and linkage mapping and QTL analysis
- Knowledge of conventional breeding is an advantage
- Functional knowledge of statistics applicable to genetic analyses
- Experience in genetic diversity analysis and graphical genotyping
- Practical experience in gene cloning, sequencing and sequence analysis, and primer designing
- Knowledge of candidate gene analysis and biosynthesis pathways
- Bioinformatics experience beneficial
- Ability to work independently and as part of a TEAM
- Good interpersonal skills
- Strong familiarity with PC and Microsoft programs
- Strong analytical and reasoning abilities
- Excellent communication skills; both written and verbal
- Willingness and capacity to learn and acquire relevant new skill sets

WORKING CONDITIONS

Work with laboratory chemicals and other possibly irritating substances. Long periods of standing, bending, and/or sitting performing repetitive tasks. Ability to work long and irregular hours when necessary and/or required.

**Please submit resume to:**

Nunhems USA, Inc.  
Attn: Tiffany Lawhorn  
Research Administrator  
279 Cousteau Place, Suite #200  
Davis, CA 95618  
Fax 530-757-9798  
Email: [tiffany.lawhorn@nunhems.com](mailto:tiffany.lawhorn@nunhems.com)