

Texas A&M University, College Station, TX 77845

## Post doctoral Research Associate

### Job description

We are seeking a hands-on Postdoctoral Research Associate experienced in quantitative and qualitative analysis of foods. The ideal candidate should have experience in handling analytical instruments including LC, LC-MS, NMR and GC-MS. Must possess high attention to detail, strong organization skills, and excellent communication. He/she will need to operate in a startup environment and be flexible to take on new and added responsibilities according to research need. Provide advice and assistance to other laboratory members, act as a mentor to students.

- PhD in Horticulture, Agriculture, Biochemistry, Chemistry or related field with a focus on fruits and vegetables. Organic or analytical chemistry experience, demonstrated record of productivity in related area of research as evidenced by publications and/or patents.
- Hands-on experience with a wide range of techniques in purification, and spectroscopic characterization of novel compounds (NMR, LC-MS, HPLC, etc.). Experience in identification metabolites, isolation and identification of bioactive compounds.

### Responsibilities

- Conduct experiments related to identifying metabolites in plant and biological samples. Develop and conduct research projects related to "foods for health" such as analysis and method development of bioactive compounds.
- Conduct research to determine levels of bioactives in fruits and vegetables. Understand factors to extend the shelf life of fruits and vegetables. Develop technology to preserve and maintain quality and nutritional values of fresh fruits and vegetables after harvest through delivery to the consumer. Conduct range of techniques for purification and spectroscopic characterization of novel compounds.
- Work with plant disease samples and have complete understanding vegetables disease and their relation with potential metabolites.
- Conduct experiments related to use of nanotechnology and agriculture.
- Operate and maintain analytical core unit, routine Lab instruments and maintaining day today laboratory and field experiments.
- Responsible for conducting and maintaining records of experiments. Lab safety and related duties and responsibilities.

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- Develop and conduct research projects such as analysis and method development of bioactive compounds. Investigate changes of bioactive compounds during the postharvest handling processes.
- Work with industry partners and collect samples from field from different locations in Texas.
- Train undergraduates, graduate students, and visiting scientists.
- Conduct hands-on training based on need and develop short courses. Responsible for writing external and internal grant proposals, manuscripts for publication in peer-reviewed journals and reports.
- Any duties assigned by the Director of the Vegetable and Fruit Improvement Center (<http://vfic.tamu.edu>) based on the specific need.

**Required skills:**

- Excellent oral and written communication skills.
- Design experiments independently for the research with limited assistance
- Demonstrate competency with laboratory work and use of analytical instrumentation
- Interpret analytical data from LC/MS or GC-MS instrumentation and apply understanding to solving the specific problem
- Track record of peer-reviewed publications and scholarly work in the related areas.
- Comfortable working in a fast paced environment with firm deadlines
- Maintain analytical instrumentation and troubleshoot problems when necessary
- Write standard operating procedures and demonstrate the ability to follow procedures
- Work effectively in a team environment
- Able to communicate constructively with other scientists and collaborators
- Experience in identifying metabolites in biological samples.
- Proficient in Microsoft Office (Including Excel, Word, Outlook, etc.)
- Managing lab group, maintaining supplies and inventory.
- Quantitative and Qualitative analysis of ingredients via LC/MS; specifically an Agilent 1290 coupled to a Bruker maxis Impact
- Assay development for new compounds and ingredients
- Maintenance of instrumentation and ordering of expendables
- Impeccable record keeping and troubleshooting skills
- Highly collaborative, self-motivated, team-oriented individual, with good computer skills.

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- Participate in analyzing and disseminating data results as part of participation in group meetings, prepare manuscripts, periodic reports, scientific papers/presentations and grant proposals.
- Provide advice and assistance to other members of the laboratory and mentor graduate and undergraduate students.
- Maintain laboratory instrumentation and follow applicable safety standards.
- May require working evening and/or weekend hours.
- Ability to multi-task and work cooperatively with others.
- Contributes to team by working effectively with individuals of diverse backgrounds.
- Require Texas Driver License

Employment is contingent upon the agency's verification of credentials and/or other information required by agency procedures, including the completion of a criminal history check.

Please apply through [https://tamus.wd1.myworkdayjobs.com/en-US/AgriLife\\_Research\\_External/job/College-Station-AL-RSCH/Postdoctoral-Research-Associate\\_R-012634](https://tamus.wd1.myworkdayjobs.com/en-US/AgriLife_Research_External/job/College-Station-AL-RSCH/Postdoctoral-Research-Associate_R-012634)

**Job # R-012634** and e-mail Bhimu Patil at [b-patil@tamu.edu](mailto:b-patil@tamu.edu) with any questions.

Finalists may be required to furnish a copy of official transcript documenting degree conferred.

Texas law requires all males 18-25 show proof of compliance with federal Selective Service law to be eligible for employment.

Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity.

All positions are security-sensitive. Applicants are subject to a criminal history investigation, and employment is contingent upon the institution's verification of credentials and/or other information required by the institution's procedures, including the completion of the criminal history check.

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