**Graduate Research Associate (Food Process Engineering)** (Superheated Steam application in Food Plant Sanitation)

The Ohio State University, Departments of Food, Agricultural and Biological Engineering (FABE) / Food Science and Technology Center for Clean Process Technology Development ([http://u.osu.edu/foodsafetyeng](http://u.osu.edu/foodsafetyeng/)/) is recruiting a doctoral level graduate research associate student. Successful candidate will be a part of a university-industry multidisciplinary team and conduct research on food safety engineering aspects

superheated steam in food plant sanitation. The graduate research associate will help with the following project goals

**Project Goals and Responsibilities:**

1. Evaluate microbial destruction kinetics of pathogenic and spoilage organisms and/or other hazards in different food plant surfaces as a function of different super-heated steam parameters
2. Evaluate efficacy of a pilot scale super-heated steam applicator in food manufacturing environment.
3. Work collaboratively with the university-industry based researchers in advancing research and outreach goals of the laboratory.
4. Assist the investigator in the up keeping of the pilot plant and laboratory management

The student will be expected to publish research findings in peer-reviewed journals, food processor factsheets, present research findings in conferences/meetings, and contribute to preparation of technical progress reports.

**Desired Skills/Experience:**

• Hands-on experience and *mechanical aptitude* in working with advanced food technology machinery

* Experience with statistical experimental design, and data analysis would be plus

• Prior course work and/or hands-on laboratory experience with food microbiology is desired

• Ability to learn/adopt skills and knowledge in solving “real-world” problems.

 • Creative and independent research abilities with teamwork spirit.

• Excellent oral and written communications skills.

**Education:**

* Graduate degree (M.S) in Agricultural, Chemical or Food Engineering, Biotechnology, Food Science and Technology or related discipline. B.S. applicants with exceptional academic record will also be considered for admission to direct PhD
* Superior GRE / ToEFL (for international scholars) scores

**Salary and Benefits:**

Starting salary/stipend will be competitive. The position will include full benefits as per OSU guidelines, including tuition and health care benefits. Anticipated Starting Term: Fall 2019, Autumn 2020 or Open until filled.

**Application:**

If interested, email the following materials to Dr. V.M. “Bala” Balasubramaniam (balasubramaniam.1@osu.edu):

• A cover letter articulating how your academic and prior research or work experience uniquely prepares you to be part of our team.

• Detailed curriculum vitae

• Academic B.S & M.S. transcripts (Unofficial copy at this point)

• Unofficial GRE and TOEFL (only for international students) test scores.

• List of three references (name, position, institution, email address, and phone number). References will be contacted only for the candidates that make the short list.