Research, Informatics and Graduate Studies

https://sites.gtiit.edu.cn/research/positions/rf-2019006/

Research Fellow Position in Food Sustainability-group of Dr. Yigal Achmon (RF-2019006)

Program
Biotechnology and Food Engineering

Research Area
Food Sustainability

Contacts
Yigal Achmon

Email: yigal.achmon@gtiit.edu.cn

Webpage Link

Application Deadline
Open till filled

Description
The food sustainbiomics lab (group of Dr. Yigal Achmon) is looking for 2 scientists to lead experimental research projects in advanced simulation of food loss prevention and food waste valorization. Contract duration: 3 years.

Project Details
The food sustainbiomics lab is looking for excellent postdoctoral candidates. The lab's main research areas are:

- Food shelf-life and life cycle study by combining microbiome and metabolome tools
- Advanced food life cycle simulation system focused on volatomics
- Advanced food waste valorization by flavor and nutrients extraction.
- Utilizing food waste for sustainable agricultural practices (mainly biosolarization)

The lab is using a unique simulation system combining an environment controlling system with advanced analytical tools to continually monitor the evolution of volatile compounds during different food storage/process applications. We pursue a better understanding of food maturation and degradation processes for a tailor-made design of food loss and waste prevention.

Keywords
Microbiome, volatomics, food waste, sustainable agriculture, food shelf-life, advanced simulation, life cycle assessment, reused food, food flavor, bioinformatics, biosolarization, next generation sequencing.

Selection Criteria
PhD degree in Microbiology/Bioinformatics/Food science/Biotechnology/environmental engineering or related fields (essential)

– Strong background in one or more of the following areas: molecular microbiology, food chemistry, sustainable agriculture, food waste management, bioinformatics with an emphasis on microbial ecology, fermentation engineering, flavor analysis, metabolomics (essential).

– Strong knowledge about one or more of the following techniques/tools: metabolomic data analysis, metagenomics data analysis, PTR-MS, Micro-oxymax, HPLC, GC-MS, solid phase fermentation, proteomics (preferable).

– Strong interest in working temporarily in overseas labs (essential).

– Good communication skills, good English skills: reading, writing and talking (essential).

– Ability to work independently as well as in a team environment (essential).

– Ability to author scientific reports and scientific publications (essential).

Benefits

– Salary range: up to $49,000 / year (depending on the qualifications of the candidate).

– Subsidized housing at the GTIIT, China.

– Health insurance: regular cover for Chinese citizens or private health insurance for foreigners.

– Professional conference travel allowance.

Application

– Application deadline: **until filled.**

– Send electronically the required documents detailed below to: yigal.achmon@gtiit.edu.cn

1. Curriculum Vitae and personal statements.
2. A publication list.
3. Three letters of recommendation (one from the mentor for the PhD and/or Master's studies).
4. A short research plan outline (up to one page in length).
5. Degree certificates with certified English translation for both the PhD and the Master's degree.