

### About TUMCREATE

TUMCREATE is a multidisciplinary research platform of the Technical University Munich (TUM) at the Singapore Campus for Research Excellence and Technological Enterprise (CREATE). We are joining forces with universities, public agencies, and industry for the advancement of future technologies.

Our large-scale Food Science 'Proteins4Singapore' program is funded by Singapore's National Research Foundation (NRF). The Technical University Munich (TUM) and Nanyang Technological University (NTU) join forces with the Singapore Institute of Technology (SIT) and A\*STAR's Singapore Institute of Food and Biotechnology Innovation (SIFBI) to research plant-based proteins.

Please visit [www.tum-create.edu.sg](http://www.tum-create.edu.sg) for more information about TUMCREATE.

### Job Title/Position: Research Intern/Bachelor's or Master's Student in Controlled Environment Agriculture (CEA) – Soybean Project

#### Overview:

Join a cutting-edge research team in Singapore focused on advancing controlled environment agriculture (CEA) systems for optimizing soybean growth and productivity. This internship or thesis project provides hands-on experience in a field that combines plant science, agriculture, food sciences, and data analytics to address sustainable food production challenges in urban settings such as Singapore. This internship can either be a 3 to 6 months (paid internship between SGD 1400 – 1600 per month or SGD 10 per hour) or 6 months (thesis project).

#### Key Responsibilities:

- Assist with experiments to study soybean growth and yield potential under controlled environmental conditions (light, temperature, humidity, etc.).
- Assist in developing and testing innovative cultivation strategies, including hydroponics or vertical farming setups.
- Collect, analyze, and interpret data on plant physiology, growth performance, and yield quality.
- Participate in the maintenance and operation of advanced CEA facilities during all the stages of the experiment.
- Prepare technical reports or a thesis (for Bachelor's and Master's students) summarizing findings and providing actionable insights.

#### Qualifications:

- Currently enrolled in a Bachelor's/Master's program in Plant Science, Agronomy, Horticulture, Environmental Science, or a related field from a reputable University.
- Previous **experience with soybean** in the field will be a **strong advantage**.
- Strong interest in controlled environment agriculture and sustainable crop production.
- Experience or coursework in plant biology, crop physiology and hydroponics is a plus.
- Basic data analysis skills (e.g., Excel, R, Python) and familiarity with statistical tools.
- Strong organizational and communication skills, with the ability to work independently and as part of a team.

#### Additional information:

This position is ideal for students looking to gain practical experience in agricultural technology or conduct a research project for their Master's thesis. If you are passionate

about sustainable agriculture and eager to work on innovative solutions in CEA, we encourage you to apply!

**What TUM CREATE offers you:**

- Training regarding CEA operations and crop management.
- Hands-on experience in an emerging field with real-world applications.
- Access to state-of-the-art CEA facilities and technology.
- A collaborative and innovative research environment in the heart of Singapore.
- Opportunity to contribute to research that impacts sustainable agriculture in urban regions.
- Paid internship (on hourly basis) or bi-lateral agreement with institutions that support you to conduct your thesis abroad.
- Vibrant, modern and positive working environment in Singapore.
- Campus-sited office location with a host of facilities.
- In-building perks including gym, game room and coffee room.

**Applications**

To apply, please send your resume [hr@tum-create.edu.sg](mailto:hr@tum-create.edu.sg), a brief cover letter explaining your interest in the position, and any relevant coursework or project experience. Applications will be reviewed on a rolling basis.

Only shortlisted candidates will be contacted.

We look forward to your application.