

## Lead Researcher – Microbiology

### Description

**Job Description** – Co-design an efficient novel strain biobank/microbial diversity repository from the environmental region. Establish protocols to maximise yield of biodiversity and bioactivity of microbial strains from environmental, invertebrate and plant sources using state-of-the-art techniques. Help guide the establishment, optimization and maintenance of an environmental microbiology laboratory including molecular methods, such as phylogenetics and gene-expression. Help develop models to evaluate the effectiveness of the biobank, in accordance with best practices, including e.g. cryopreservation. Establish procedures and maintain an outstanding record of laboratory data and procedures to ISO/best-practice-, and ,for bioproduction, GMP standards. Contribute to identifying potential academic and industrial collaborators for projects conducted at the TII Biotech Center. Contribute to outreach activities directed to potential clients, collaborators and the public during conferences and events.

**Responsibilities** – Necessary:•Microbial biodiversity collection, laboratory and project management•Knowledge of state-of-the-art microbiological and molecular biology technologies for the production and maintenance of selected bacterial strains•Classification, phylogenetic mapping, gene expression and metagenomics experience•Expert knowledge of natural product databases•Training and publications of microbial classification•Ability to work in a team environment•Ability to obtain and maintain a security clearance Preferred:•Experience with large microbial strain collections, including effective maintenance and characterizations•Ability to perform molecular methods on microorganisms, cell culture, flow cytometry, ELISA, etc. •Ability to troubleshoot and maintain associated systems•Knowledge and experience using bioinformatics and large data sets•Experience with isolating and culturing extremophiles•Experience working with antiSMASH•Prior experience in the activation of silenced BGCs

**Qualifications** – •Possession of a PhD degree from an accredited college or university in biology or six-plus (6) years of related experience. •In addition to the education requirement, ideally at least two (2) years of leadership experience •Four (4) years post-graduate experience with a strong emphasis on microbial characterization and biobanking

**Contact** – Carsten Wolff, [Carsten.Wolff@tii.ae](mailto:Carsten.Wolff@tii.ae)

**Post End Date** – 05/01/2024

### Contacts

**Website** – <https://www.tii.ae/biotech>

### Hiring organization

Technology Innovation Institute;  
<https://www.tii.ae/biotech>

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