

### Topic of the Internship (short description)

Foresight methods as a tool for developing a research and development strategy using the example of the BlueHealthTech project

### HOST INSTITUTION & PEOPLE

Name of host institution:

Kiel University  
Kiel Institute for Responsible Innovation  
Chair of Technology Management  
Westring 425  
24118 Kiel  
Germany

Supervisor name and contact (email, phone):

Prof. Dr. Carsten Schultz (email: schultz@bwl.uni-kiel.de, phone: +49 431 880-1542)  
Tetyana Melnychuk, M.Sc. (email: melnychuk@bwl.uni-kiel.de, phone: +49 431 880-4795)  
Dr. Mehdi Zamani (email: zamani@bwl.uni-kiel.de)  
Osama Alrabayah, M.Sc. (email: alrabayah@bwl.uni-kiel.de, phone: +49 431 880-1552)

Research focus of the institution:

The Chair of Technology Management primarily conducts research on the challenges facing innovations in Health Care and the development of sustainable products, services, and product-service-systems (PSS). We focus on the strategic change necessary with respect to technology and innovation management, especially regarding the social relevance of demographic and climate change.

In our research projects, we utilize qualitative and quantitative primary and secondary data that are evaluated using multivariate statistical methods and/ or content analysis approaches. The results are published in high-ranking scientific journals (e.g., Research Policy, Journal of Product Innovation Management), and prepared for practical application.

Website:

<https://www.techman.uni-kiel.de>

## TOPIC OF THE INTERNSHIP

Scientific context of the internship:

Strategic foresight is the basis for estimating future epidemiological, medical and technological developments at the interface between medicine and marine science within the framework of the research project "BlueHealthTech". The goal of the project is to support the research and development at the intersection of medicine and marine science for the development of innovations to treat chronically ill patients. The underlying foresight process is designed to investigate the future needs of the healthcare market and to prepare the potential of relevant technological developments using established analytical methods, such as patent and publication analyses, and on the basis of qualitative information from national and international experts. In addition to short- and medium-term trends, alternative long-term visions of the future will also be developed within the framework of scenario analyses.

Keywords:

Foresight methods, scenario analysis, patent analysis, bibliometrics, medical technology, marine science

Tasks entrusted to the student:

- Support in conducting and analyzing expert interviews in the field of medicine and marine science
- Assistance in performing scenario and patent analyses
- Providing help in scientific comparison of the outcomes of the patent analysis and scenario analysis (and other foresight methods) for the strategic decision-making

Skills to be acquired or developed:

Knowledge and hands-on experience in conducting scenario and patent analyses  
 Skills in the development of a technology road map and an organization's strategy based on the strategic foresight methods  
 Skills in a semantic analysis such as topic modeling

## PROFILE OF THE STUDENT

Minimum level of study required:
Bachelor's degree
Field(s) of study:
Business Administration, Innovation Management, Technology Management, Business Engineering, Business Chemistry
Scientific (or other) skills required:
Basic knowledge in the innovation and technology management is preferable
Language skills required:
English

## GENERAL CONDITIONS OF THE INTERNSHIP

Desired duration of internship (in months):	Preferably 6 months
Desired start of internship:	As soon as possible
Indicated weekly schedule:	Full-time
Payment:	None. It is possible to apply for an Erasmus+ Grant at your own university.
Internship agreement:	An internship agreement will be signed.

**To SEA-EU students:**

***If you're interested please send your CV and letter of motivation to the supervisor.***