

Annex 1 (AAS)

Guideline - Research Proposals for All Academic Staff FY2026 (Research Period: May 2026 to May 2027)

Theme 1: Maritime Education and Training in the era of AI

(Max. USD 60,000)

Possible key concepts to be structured and explored within the theme, not limited to the following:

- Adoption of autonomous technologies and AI in MET
- Opportunities and threats of using AI technologies in MET
- Simulation training by AI tools
- Educational aspects of MASS, cyber security, smart ports, etc.
- Challenges of educating Global Maritime Professionals
- Revision of STCW

Desirable Goals

- Adoption, delivery and implementation of innovative technologies in MET
- Meeting challenges and developing assessment tools in MET
- Applying Best Practices for MET in the context of AI
- Recognizing the need for amendments in IMO regulation, including future seafarer competencies

Theme 2: Disruptive innovations in shipping

(Max. USD 60,000)

Possible key concepts to be structured and explored within the theme, not limited to the following:

- Smart shipping
- Maritime Autonomous Surface Ships
- Digital twin systems
- Cyber security
- Digitalization, automation and data analytics

Desirable Goals

- Introducing innovative technology solutions
- Adapting traditional shipping to state-of-the-art technology
- Recognizing the opportunities and challenges of disruptive technologies

Theme 3: The role of maritime transportation in strengthening the Blue Economy

(Max. USD 60,000)

Possible key concepts to be structured and explored within the theme, not limited to the following:

- Decarbonization and sustainability in shipping
- Policy and legal framework in maritime transportation
- Implementation of alternative fuels in shipping
- Management of emission reduction and pollution control
- Optimization of port operations, infrastructure and supply chain management
- Emerging business models in shipping

Desirable Goals

- Introducing innovative technologies and solutions for cleaner oceans and greener shipping
- Recognizing the need for implementation of IMO regulations regarding alternative fuels
- Improving vessel operations for reducing emissions and pollution prevention
- Optimizing port operations, infrastructure and logistics
- Adapting ports for accommodating ships of the future

Theme 4: Optional topic

(related to IAMU goals and objectives as stated in the Basic Agreement)

(Max. USD 60,000)

Applicants to this research proposal are required to include possible key concepts and desirable goals to be structured and researched within the theme in their application forms

Note:

Each IAMU member university can submit one (1) proposal for each theme.

Criteria in the Evaluation form for All Academic Staff will help you to prepare the application.

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