

Meriteollisuus



Finnish Marine Industry

- Industry known for competence & ability to solve complex engineering challenges
- Principal markets:
 - Cruise ships, Ferries, Arctic & Offshore vessels, Specialized vessels
 - Advanced marine systems, interior and equipment for all ship types
 - Cleantech solutions
 - ICT solutions for marine applications



Finnish Marine Industries coordinates cooperation and industrial policy among the sector ~90 member companies

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Finnish marine industry consists of

- Marine equipment manufacturers
- Turnkey suppliers
- Design offices
- Software and system providers
- Material suppliers
- Shipbuilding, ship repair and offshore yards



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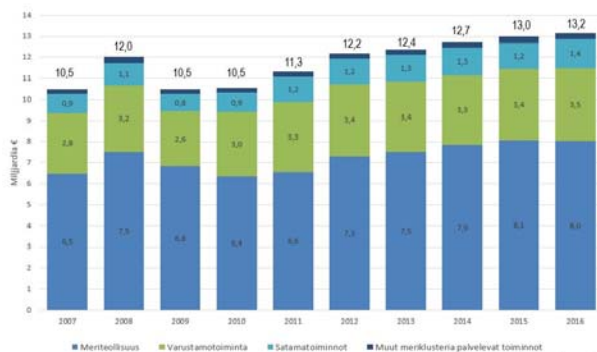
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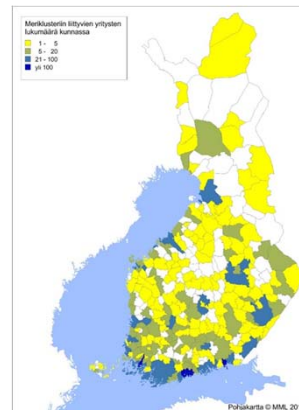
The industry is growing,

Increasing need for multitasking experts

Kokonaisliikevaihto alaryhmittäin 2007–2016, mrd. €



Turun yliopisto
University of Turku

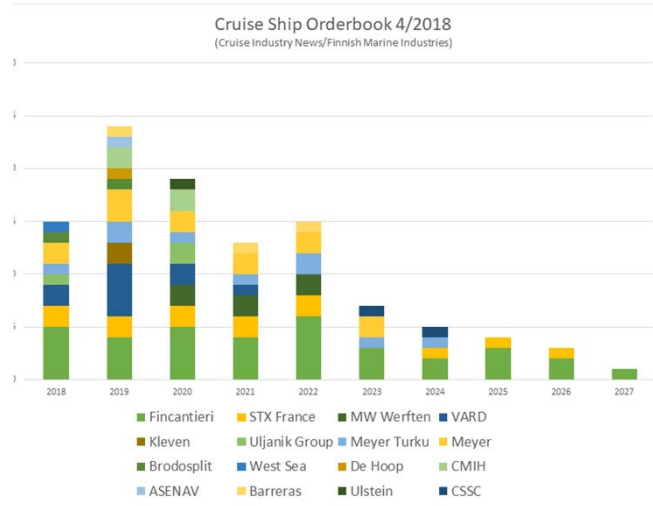


University of Turku, Brahea Centre

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Marine megatrends effect to the skills needed



- Climate change, sustainability and circular economy
- Ineffective global transport chain
- Digitalisation of ships, equipment and systems
- Global competition getting harder
 - Need for innovations and development of the production methods (through automatization)





Recruitment needs will grow significantly

- Shipyards' long orderbooks
- Also companies of the network aiming to grow
- Internationally the market situation for entire marine business improving—will also create new demand for employees
- Retirements – next generation of experts needed
- Large companies now recruiting – what about SME's of the supply chain?
- The industry now employs 30 000 people, what will it be after five years?
 - Indirectly even more!

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Knowhow needed in numerous areas

- Project management & logistics
- Environmental technologies
- ICT
- Industrial engineering and management
- Production and productivity development
- Sales & marketing
- ...
- & Naval Architecture!



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<p>ALUMINIUM AND STAINLESS MOBILE MODULES Mobimar</p> <p>CABINS, BATHROOMS AND RELATED EQUIPMENT Anti-Teollisuus Parmarine Piikkio Works</p> <p>CATERING EQUIPMENT Kavika Metos SeaKing</p> <p>COMPONENTS AND MATERIALS Hentec Joptek Composites Kemppi Lautex Mesekon nora flooring systems Paroc Planson United SBA Interior SSAB Europe Tebul</p> <p>ENGINEERING AND TECHNICAL CONSULTING Allstars Engineering Comatec Deltamarin Elomatic Foreship SDS Aura</p>	<p>ELECTRICAL SYSTEMS AND COMPONENTS Atexor Caverion Finland Helkama Bica Hella Lighting Finland LST Group Promeco Group Protocon Takoma Trafotek</p> <p>ELEVATORS Kone</p>	<p>ENERGY AND ENVIRONMENT Alfa Laval Aalborg Blu Ocean Solutions Evac GS-Hydro Oilon Onninen Valmet Wärtsilä</p> <p>FIRE PROTECTION Martiolf Corporation Saajos</p>	<p>HVAC SOLUTIONS AND COMPONENTS Halton Koja</p> <p>NAVIGATION SYSTEMS Furuno Finland</p> <p>PROPULSION SYSTEMS ABB EIE-Maskin Rolls Royce Steerprop TEVO We Tech Solutions</p>	<p>SOFTWARE, SAFETY AND ENERGY NAPA</p> <p>SHIPYARDS Arctech Helsinki Shipyard Meyer Turku Rauma Marine Constructions</p> <p>SURFACE TREATMENT FSP Finnish Steel Painting</p>	<p>TURNKEY PROJECTS ALMACO Group APX-Metalli E.U. -Adhoc Project Joptek Composites Kaeler Marima Huuhka NIT Naval Interior Team Orsap RR Site Service R&M Ship Technologies Finland S A Svendsen Shipbuilding Completion</p>	<p>OTHER MEMBERS OF THE FINNISH MARINE INDUSTRY Admares Aker Arctic Ikonos Kvaerner Finland Lamor MacGregor Finland Machine Technology Center Turku Pemarnek Prizztech Stello Technip Offshore Finland Uki Workboat</p>
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Cruise Ship is like a city!

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MEIN SCHIFF 6 TECHNICAL SPECIFICATIONS

Length over all: 295,25	Passenger capacity: 2794
Breadth, moulded: 35,80	Cabins: 1267
Speed: 21,4 knots	Crew: 1061
Gross tonnage: 99 800	Decks: 16

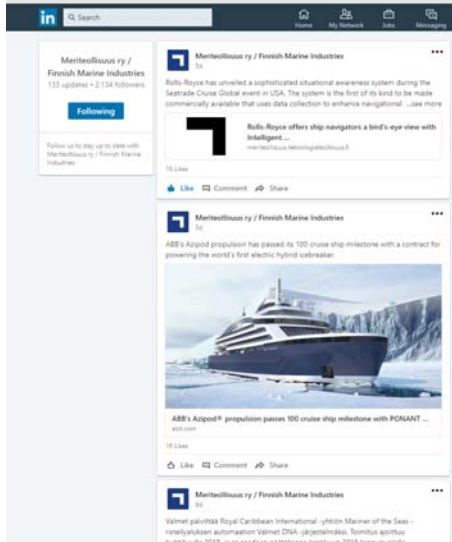


Reasons to choose marine industry career?

- Ship is like a small city: interesting products
 - Diverse opportunities to develop one's know how
- Growth and need for next generation of experts
 - Good possibilities to advance in your career and get responsibility
- Global market: opportunities to travel and see the world

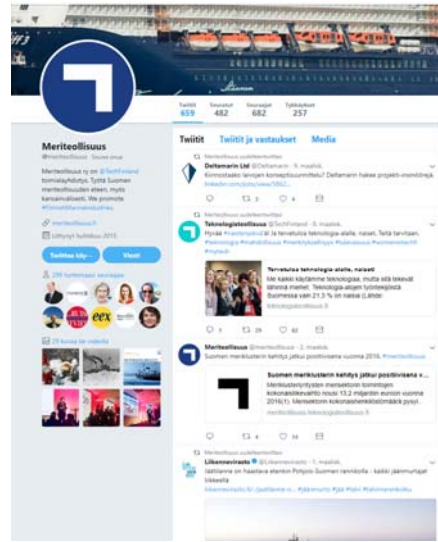
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Examples of diverse open opportunities! ..and many more

[Strength analyst, MacGregor Cargo](#)

[Laatuinsinööri, runkotuotanto,
Meyer Turku](#)

[Koneistosuunnittelun
systemikoordinaattori, RMC Finland](#)

[Teollisuuspalomies, Meyer Turku](#)

[Senior design engineers, LNG,
Wärtsilä](#)

[Project Manager, Marine team, Wärtsilä](#)

[Laivan LVI-, luokitus-, runko- ja
sisustussuunnittelijoita, Elomatic](#)

[Automaatiojärjestelmien
projektipäällikkö, Meyer Turku](#)

[Laatupäällikkö, Halton Marine](#)

[Mekaniikan asiantuntija potkurilaitteiden
huoltoon, Rolls-Royce](#)

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Future Looks Bright, Specially Today

- The need for maritime transport will grow significantly by 2030
- The most economical way of transport of passengers and goods is by sea – It's ecologically sustainable as well
- Cruise business grows
- **The demand for multi-talented experts with diverse educational backgrounds increases!**

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Members



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Thank you!

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