

Glostén's approach to vessel design begins with our clients. We work with you from start to finish throughout the design process. Our staff is the key to maintaining our commitment to client service.

We seek associates with both sound educational backgrounds and practical experience, and encourage their professional development. This assures you that your project is completed to the highest standards. Whether your needs require a conventional or one-of-a-kind approach, look to us for the solution.



### Conceptual Design and Feasibility Studies

- Operability and suitability studies
- Design trade-off studies
- Cost estimating
- Economic performance

### New Vessel Design and Consulting

- Contract plans, specifications and estimates
- Owner's model designs
- Hull form, lines, weight estimates, subdivision and tonnage
- Structural design
- Propulsion, mechanical and electrical systems
- Cargo systems
- Passenger arrangements and support

### Vessel Conversions and Modifications

- Hull and structural modifications
- SOLAS, lifesaving, fire safety and ADA compliance
- Habitability and food service upgrades
- Service enhancements and life extension
- Repowering
- Mechanical and electrical upgrades
- Noise and vibration reduction

### Regulatory Assessment

- National and international codes

### Vessel Acquisition

- RFP development
- Source selection
- Shipyard evaluation and selection
- Contract development and negotiations

Service



Innovation

### Construction Support

- Contract management
- On-site technical program management
- Construction inspection
- Drawing review
- Tests and trials programs

### Cargo Systems

- Pumps and piping systems
- Seafastening design and analysis
- Cranes, winches and A-frames
- Ro-Ro elevators, doors and ramps
- Container handling and stowage
- Bulk cargo systems and conveyors

### Stability and Hydrostatics

- On-board program (GSSP)
- Stability booklets, loadlines and stability letters
- Floating and float-in civil structures
- Ballasting plans
- Deadweight surveys, weight estimating and stability tests
- Submersible heavy-lift loading and off-loading
- Probabilistic damage stability

### Resistance, Propulsion and Power

- Resistance determination
- Model testing
- Computational fluid dynamics (CFD)
- Resistance in waves
- Geared diesels, diesel-electric, steam
- Propellers: open, nozzles, cycloidal, azimuthing, pods

### Vibration, Noise and Acoustics

- Propellers, machinery and ventilation systems
- Structural vibrations and noise
- Modeling and analysis
- Fatigue analysis
- Measurement, surveys and criteria
- Isolation and damping systems

### Serving Many Industries:

- Commercial shipping
- Tugs and barges
- Ferries
- Offshore and upstream development
- Oil and LNG shipping
- Oceanographic research
- Shipyards
- Marine construction
- Salvage
- Government agencies
- Civil engineering
- Environmental products and services
- Industrial clients



Leadership



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