



COMPANY PROFILE
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OUR COMPANY

TASK

bætin is a geotechnical consultancy company providing smart solutions and smart management geared to deliver safe, quality, and professional services on marine and onshore projects.

THOROUGHNESS

From inception to completion, **bætin** provides services pertaining to design (concept, specifications, preparation, and review), tendering and contracts, negotiations and awarding, contract administration, and project management.

EXPERIENCE

bætin utilizes the experience of its engineering professionals and scientists with accumulated decades of geotechnical and earthwork experience on a wide spectrum of projects extending to several continents including North America, Europe, Middle East, and North Africa.





OUR CUSTOMERS

THE OWNER

bætin collaborates, from concept to execution, on the project at early or late stages as a specialty consultant to help the owner plan, design, and execute the works in a safe and quality manner.

THE CONSULTANT

bætin can provide, as a sub-consultant, the entire technical scope of services including project management in addition to general consultation and evaluation as needed.

THE CONTRACTOR

bætin can act as a specialty third party consultant to provide the contractor with the technical help required especially on design-build projects.



OUR SERVICES

Our Recommendation, Project Management, Peer Review, Design, and Contracts services can be applied on diversity of geotechnical activities



Geotechnical recommendations by **baetin** cover onshore and offshore projects with diverse activities such as shoring, deep foundations, dams, earthworks, tunnels (New Austrian Tunneling Method (NATM) and TBM method), marine, artificial islands, monitoring, and soil improvement works in addition to other

geotechnical activities. Irrespective of how big or small a project is, **baetin** provides recommendations pertaining to geotechnical concept designs, cost estimate, monitoring and investigation, detailed designs, contracts (language and administration), schedules, and work execution.

The wide experience of **baetin** engineers and technicians ensures proper and customized recommendation is available whenever the client needs help on the works.



DESIGN

bætin provides advanced level of geotechnical design by utilizing the experience of unique professional engineers and by using advanced software of finite element and 3D modeling. The service is provided while ensuring full integration between the geotechnical and structural requirements and full coordination be-

tween different design teams.

For sensitive applications, such as tunneling and deep excavation near existing important structures, **bætin** provides design and recommendation of required monitoring systems, management of the systems, and setting of warning and action criteria. This is performed while as-

suming full coordination with related structural teams and authorities.

bætin also provides evaluation service on existing concept and detailed designs to help maximize the reliability and efficiency of proposed works and help reduce the cost by ensuring the fitness of the existing design.



At times when a project demands specific professional geotechnical engineering review, **bætin** provides peer review service on existing concept and detailed designs to help maximize the reliability and efficiency of proposed works and help reduce the cost by ensuring the fitness of an existing design. The service extends to include professional evaluation and re-

view of existing or proposed standard and short-form contracts to secure the contract conditions and terms and assure fair distribution of liabilities as well as reasonable commercial requirements.

bætin can also provide peer review on technical specifications forming part of the contract, existing execution methodologies, and site work management plans.

The peer review of project schedules and work conditions is geared to provide recommendation on expediting the work progress while optimizing variation costs and maintaining high safety levels and quality.



CONTRACTS

A contract is the core and heart of any project. **bætin** realizes the sensitive nature of geotechnical contracts due to underground uncertainties and unforeseen conditions and manages the preparation stage of the contracts by drafting proper terms and conditions giving high attention to distribution of liabilities and sharing of responsibilities to assure and

ensure smooth operation and to allow for successful and timely completion of proposed works .

With a strong background on geotechnical engineering applications that covers both consulting and contracting works, **bætin** provides realistic and practical contract conditions and schedules to achieve a win-win situation for all parties

and to perform the works successfully while minimizing claims and disputes. **bætin** also administers the contract conditions when required. **bætin**'s contract services extend to include technical specifications, floating a tender and managing related negotiations up to award while ensuring full coordination with the client and appointed parties



PROJECT MANAGEMENT

bætin provides an entire spectrum of project management on geotechnical engineering projects from concept to execution.

From the very first steps, and to allow for proper concept design and cost estimate, **bætin** helps the client acquire and obtain necessary underground parameters by deciding on proper soil investigation scheme, mapping, and survey. **bætin** manages the entire process of structuring an investigation scheme with related

specifications, floating tenders, analyzing soil investigation offers, and providing recommendations to the client. **bætin** manages the investigation then analyzes the data and provides its recommendation for later integration into necessary analyses and design.

For advanced stage projects, **bætin** manages the design process by utilizing its deep knowledge, experienced engineers, and advanced software, to craft and optimize a detailed design. **bætin**

manages the bid process while ensuring high coordination with the client and appointed parties for successful selection of qualified specialty contractor to execute the works while maintaining a balance between cost, quality, and time.

During execution of the works, **bætin** provides site supervision to ensure proper, safe, & quality execution of the works in addition to providing necessary contract administration through proper representation of the client.

“NUMBERS...



15

Project Location Countries



110

Years of Engineering Experience



1500

Projects by Staff



30

Years International Experience

...SAY IT ALL”



OUR ACTIVITIES

bætin's success is attributed to a team of professionals with hands on experience on diversity of geotechnical activities. The team is ready to address the requirements of any geotechnical project while assuring high safety and quality levels

SOIL INVESTIGATION



At **bætin** earth technologies, we specialize in providing comprehensive geotechnical investigations and explorations across the great state of Georgia. Our team of seasoned engineers and experts is committed to ensuring that your projects stand on solid ground. Here's how we can assist you:

- 1. Geotechnical Investigation:** We delve deep into the earth, uncovering critical information about soil composition, groundwater levels, and geological conditions. Our thorough investigations lay the groundwork for informed decision-making.
- 2. Geotechnical Exploration:** we explore the subsurface layers, revealing hidden complexities. From soil sampling to geophysical surveys, we leave no stone unturned.
- 3. Boring Logs and Laboratory Testing:** Our meticulous bore-hole logging and laboratory testing provide essential data. We analyze soil properties, shear strength, and settlement potential, ensuring precision in design and construction.
- 4. Site Investigation Findings:** We compile concise summaries of our site investigations. These reports empower you with actionable insights, allowing you to optimize your project's success.

5. Foundation Recommendations: Whether it's shallow footings or deep piles, we tailor foundation recommendations to your specific needs. Our expertise ensures stability and longevity.

6. Retaining Wall Guidance: We support your design team by providing necessary retaining wall parameters.

7. Site Seismic Characterization: Our seismic site assessments inform resilient designs, safeguarding your structures against tremors.

8. Excavation and Fill Material Advice: We advise on excavation depths, cut-and-fill strategies, and suitable fill materials.

9. Soil Improvement Strategies: When the ground isn't ideal, we propose soil stabilization and improvement techniques. Our goal? Enhancing load-bearing capacity and minimizing settlement risks.

10. Non-Destructive Underground Investigation: Our non-invasive methods reveal what lies beneath without disrupting the surface. Utility mapping, void detection, and more

—we've got you covered.





FOUNDATION & SHORING

bætin's team of engineers and professional technicians contributed to successful deep foundation projects by providing optimized economical designs and smart solutions. The team's experience on shoring systems extends to more than 30 years. The company provides safe designs in addition to providing recommendations and reviews on extremely complicated projects and on projects requiring high safety measures and quality performance. Services on foundation and shoring activities include the design of Deep Circular Foundation (piles), the design of Deep Rectangular Foundation (Barrettes), Micropiles, Shallow Foundation, and related Testing (Planning & Interpretation of Dynamic, Static, Integrity, X-Hole, etc.), Diaphragm Walls, Contiguous & Secant Piles, Sheet Piles, Cutoff (Slurry) Walls, Trenching, Anchoring, and Strutting.

bætin's team includes engineers specializing in off-shore projects such as artificial islands and waterfront developments. The company provides comprehensive services pertaining to design and quality testing of reclaimed grounds including borrow area assessments, geotechnical and seismic risks mitigations, dredging and reclamation, ground improvement assessment and specifications, and QA/QC scheduling and follow up.



ARTIFICIAL ISLANDS & WATERFRONT DEVELOPMENTS

A close-up photograph showing a turbulent mixture of dark soil and a lighter, yellowish-brown grout or slurry. The mixture is being stirred or pumped, creating a dynamic, swirling pattern. The text "SOIL IMPROVEMENT" is overlaid in white capital letters.

SOIL IMPROVEMENT

bætin's services on soil improvement covers both on-shore and offshore projects. In many cases, soil improvement can work as a smart, economical, and value engineering solution to avoid costlier and time consuming applications. Our services can be applied on diversity of soil improvement works including cavity grouting, jet grouting, TAM Grouting, Dynamic Compaction, Vibro Compaction, Vibro Replacement, Wick Drains, and Soil Reinforcement. In addition, we provide services on special soil improvement applications such as underground freezing.

bætin provides its consultancy services on diversity of tunneling methodologies including the New Austrian Tunneling Method (NATM), Tunnel Boring Machine Method (TBM), Sprayed Concrete Lining Method (SCL), and Micro—tunneling. The team has the ability to provide recommendations and designs throughout the different stages of the project including its concept designs, geotechnical requirements, optimization, project management, and monitoring.

A photograph of a tunnel construction site. Several workers in orange safety suits and hard hats are standing in the foreground. In the background, a large orange excavator or grouting rig is operating within the tunnel. The tunnel walls are lined with concrete segments. The word "TUNNELING" is overlaid in white capital letters.

TUNNELING



DAMS, PONDS, AND WATER RESERVOIRS

bætin's scope of services extends to cover complicated hydraulic projects requiring sound knowledge and deep understanding of the project requirements and local regulations. Our specialists offer exclusive engineering support in addition to conceptual and detailed design on reservoirs and ponds lining systems, small dams, dykes, and levees, and Dams (Hydraulic and geotechnical stability)

bætin's team of experienced coastal and marine structural designers are able to provide comprehensive services on marinas and ports including design assessment of the geotechnical and geophysical testing, dredging, reclamation, quay wall, jetties, etc. The company applies current local and international standards and guidelines to provide value engineering recommendations in addition to safe designs characterized by high quality and optimized cost



MARINAS AND PORT WORKS



MONITORING & SURVEY

bætin realizes the importance of proper monitoring and survey applications at different stages and on different types of projects. From the simplest of all to the most complicated, the company offers services on diversity of monitoring and survey applications such as comprehensive Supervisory Control & Data Acquisition (SCADA) integrated with instrumentation systems, tunnel & deep excavation ground monitoring schemes, underground investigation, topography mapping, and geotechnical mapping

bætin's services pertaining to mass excavation can bring solutions in addition to cost savings on a project. Services incorporate recommendations before, during, and after excavation stages. Activities such as deep excavation can proceed based on value engineering to optimize the reuse, dumping, and recycle of the excavated material based on applicable standards, properties, and project needs. Recommendations cover engineered backfill, dredging, cut and fill, and open cuts



MASS EXCAVATION

A close-up photograph of firefighting equipment on a rustic wooden surface. On the right is a large, glossy red fire helmet. To its left are a pair of yellow leather gloves. In the foreground, there is a black and orange communication device with a microphone and a clear plastic face shield. The text "OUR TEAM" is overlaid in white, bold, sans-serif capital letters across the center of the image.

OUR TEAM

From the future record tallest structure in the world to Europe's famous underground tunnels, **baetn**'s team of professional engineers and technicians provided exceptional services and experience on diversity of high end projects around the globe

SAMAR KATERJI

President

Ms. Katerji leads the team with more than 20 years of experience in strategic management and business development with exceptional ability to successfully communicate the company's vision and strategy.

ACADEMIC BACKGROUND

B.Sc., Computer Science.

MBA – Innovation, Leadership & Consulting.

KEY QUALIFICATIONS

20 Years of Experience.

Prince 2 – Practitioner.

Project Management Certification.

Management, Engineering Consultancy, Contracting, and eCommerce Experience.

Experience in Talent Management, HR, Innovation Management, and Digital Transformation.

AREAS of EXPERTISE

Ms. Katerji is a highly experienced business executive. She served as a dynamic leader of several startups including management & engineering consul-

tancy, lighting production company & ecommerce shops. As a consultant, she managed projects in various industries including construction, real-estate development, banks, government entities, retail groups, international and multi-national organizations leveraging cross functional engagement, proactive planning and effective execution while leading various teams.

As a business leader, Ms. Katerji is adept at creating and communicating the company's vision & strategy, establishing teams and setting expectations, monitoring progress and ensuring results are delivered. Her philosophy is a focus on continuous innovation while addressing the business needs, aligning processes with relevant technology, progressing company objectives and building value proposition for the company's clients.

NOUR AYMAN

Marketing Manager

Ms. Nour applied her key qualifications in several industries including engineering companies, printing houses, trading companies, factories, and several other practices. In addition, Ms. Nour is skilled in research and evaluating service op-

portunities in markets.

ACADEMIC BACKGROUND

B.Sc., Graphic Design.

KEY QUALIFICATIONS

8 Years of Experience.

Skilled in MS Office Suite, Adobe Suite, 3ds Max, Autodesk AutoCAD and Art-CAM, SolidWorks.

Social Media Specialist, Photographer, Catalogue and Printing Designer
3D Mold Designer and CNC Operator

OMAR ITANI, P.E.

Geotechnical Consultant

25 years of hands-on experience with projects mainly in North America, the Middle East, and the GCC area mostly related to onshore and offshore construction works with emphasis on civil engineering and special geotechnical applications.

ACADEMIC BACKGROUND

B.Sc., Civil Engineering (1996); Lebanon
M.Sc., Geotechnical Engineering (2000); USA

M. Eng., Tunneling (2015); Austria.

KEY QUALIFICATIONS

25 Years of Experience (Consulting and Contracting)

3 Professional Engineering Licenses (Georgia, USA | Florida, USA | Ohio, USA)
Onshore & Offshore Experience

AREAS of EXPERTISE

Mr. Itani's career path unfolds 25 years of hands-on experience with projects mainly in North America, the Middle East, and the GCC area mostly related to onshore and offshore construction works with emphasis on civil engineering and special geotechnical applications. His experience is well distributed between consultancy services (11+ years) and contracting services (10+ years). Mr. Itani has strong managerial, technical, commercial, and contractual skills. Mr. Itani is skilled in geotechnical engineering practice with emphasis on: shoring, dewatering, piling design, Liquefaction analysis including effect on lateral and axial capacity of piles, Slope stability and staged construction analysis, Soil remediation (improvement and reinforcement), consolidation analysis (wick drains and time rates) and elastic settlement analysis,

Shallow and deep foundation analyses, negative skin friction analysis, special investigations related to damages made by underground directional drilling, troubleshooting railroad subgrade and excavation (cut and fill) problems, lateral earth pressure analysis (retaining walls, sheet piles), designing using geo-synthetics, pavement subgrade evaluation, landfill management and design, and infrastructure road work.

ABDUL ALI, P.E.

Geotechnical & Marine Structures Expert

Dr. Abdul has broad experience in design and analysis of geotechnical systems including deep and shallow foundations, ground improvement, earth dams, earth supporting systems in addition to wide experience in the design of reinforced concrete, lab and in-situ soil testing, data analysis and modeling, quality assurance, and quality control.

ACADEMIC BACKGROUND

B.Sc., Civil Engineering

M.Sc., Geotechnical Engineering

Ph.D., Geotechnical Engineering

KEY QUALIFICATIONS

26+ Years of Experience (Consulting and Academic)

Professional Engineering License

Onshore & Offshore Experience

40+ Journal and Conference Papers

AREAS of EXPERTISE

Dr. Ali has broad experience in design and analysis of geotechnical systems including:

- deep and shallow foundations in soil and rock formations.
- ground improvement, dredging and reclamation works.
- geo-synthetic materials.
- earth dams.
- earth-supporting systems.
- ground water modelling.
- non-destructive testing for deep foundations.
- tunnels & underground excavation.
- maritime rehabilitation works.
- lab and in-situ soil testing.

With more than 26 years of practical and academic work, Dr. Abdul possesses wide experience in the following:

- design of reinforced concrete struc-

tures using various international codes (particularly ACI-2005 UBC-97, IBC 2009, and Euro-Codes 7 & 8).

- construction supervision, QC and QA.
- lab and in-situ testing (soil and concrete) as well as planning, supervising and reviewing geotechnical investigation works.
- data analysis and modelling using advanced AI systems in addition to numerical and statistical based approaches
- conducting, disseminating and presenting engineering/scientific research and studies

Additional Marine Structures experience includes:

- Design and Construction of Civil, Maritime, Highways and Industrial Structures
- Design of block work, sheet piled and open piled quay wall facilities.
- Design of LNG berthing terminals
- Design of container, aggregate, general cargo, and bulk carrier berthing facilities
- Design of supporting structure for container cranes, Aggregate, and cement unloaders
- Design of marinas, ship lifts, boat slip-

way, and Ro-Ro ramps

- Design of ports heavy duty pavement
- Seismic design of marine structures
- Supervising design and construction of civil and maritime projects
- Inspection assessment and upgrade of existing port structures
- Design of building structures
- Project management and Quality Assurance

ABDUL RAHIM

Lead Design Engineer- Ports & Dockyards

Mr. Abdul Rahim Ali is a well-known expert in the field of Civil Maritime Structural Design and Construction and has more than 37 years of experience on projects mainly in the GCC area and the far East.

ACADEMIC BACKGROUND

B.Sc., Civil Engineering (1983);

M.Sc., Structural Engineering w/ Computer Applications (1986);

MEMBERSHIPS

Chartered Engineer – Institution of Engineers; India

UAE Society of Engineers

KEY QUALIFICATIONS

37 Years of Experience (Civil Maritime) Design & Construction of Port & Maritime Structures

British Standards and other International Codes of practice

Participated in the planning & design of prominent ports in the GCC/ME

AREAS of EXPERTISE

Mr. Abdul Rahim's 37+ years of consultancy and design experience mainly spans over the design and construction of Ports and Maritime structures based on British Standards and other International Codes of practice. In addition to his Maritime experience, Mr. Abdul Rahim leads a team of experienced structural designers covering bridge flyovers, highway structures, and high-rise buildings.

Mr. Abdul Rahim's Port & Maritime experience is unique as it covers a wide spectrum of steel and concrete harbor quay wall construction, coastal marine works, oil tankers, cargo berths, floating marinas, dolphins, breakwaters, jetties, docks, spillways in addition to container

quays, quay furniture, container yards, container crane foundations, crane furniture, Rubber Tired Gantry (RTG) runways, etc.

In addition, Mr. Abdul Rahim's experience extends to assessing existing quays and jetties for capacity and operational requirements in addition to setting guidelines and providing consultancy for maintenance and refurbishment of jetties, container quays, fenders, heavy duty pavements for container yards, container crane beams, ladders, and other essential port items.

Following is some of the projects where Mr. Abdul Rahim lead the design team and consultancy services:

- Jebel Ali New Container Terminal-Stage 1, Dubai Ports Authority.
- Container Quay 4 Extension and Berth 21 Construction, Jebel Ali Port, Dubai.
- Container and Aggregates Berths, Port of Fujairah, UAE.
- Khorfakkan Container Harbor Extension, stage 2 to 4, Sharjah Ports Authority.
- Hamriyah deepwater Container and General Cargo berth, Sharjah Ports Au-

thority.

- Mina Mussafah Port, Abu Dhabi Public Works Department.
- New berth at Mina Khalid for Saipem, Sharjah, UAE.
- MIS Quay Extension at Mina Khalid, Sharjah, UAE.
- New base at Mussafah channel for National Marine Dredging company, Abu Dhabi, UAE.
- Crushed Stone Import Facilities at Mesaieed port, Qatar General Petroleum Corporation, Doha, Qatar.
- Hamriyah Inner Harbour, Sharjah Ports Authority, UAE.
- Floating Dock Mooring System, UAE Navy, Abu Dhabi, UAE.
- Westside marina design for EMAAR Properties, Dubai, UAE.
- Abu Dhabi ship building site expansion.
- New Port and Fishery harbor at Wilayat Sohar – Ministry of Communications, Sultanate of Oman.
- Dubai Coastguard – UAE Frontier and Coastguard Maintenance Base, Dubai, UAE.
- SOR oil Jetty at Hamriyah, Sharjah, UAE.
- Deira Sea Corniche, Study and Development of Beaches, Dubai Municipality,

UAE.

- National Petroleum & Construction Company Quay Wall design, Mussafah, UAE.
- Jebel Dhanna Harbor Extension – Sheet piled wharf wall design for ADCO, Abu Dhabi, UAE.
- Ras Zubayyah Mooring Facilities Design, Abu Dhabi PWD, UAE.
- Al Jazeirah Wharfage Design – Government of Sharjah, UAE.
- Dibba Berthing Facilities – Concrete quay wall design for FAL oil company, Sharjah, UAE.
- Al Shahama Southern Interchange Flyover for Abu Dhabi Public Works Department, UAE.
- Khor Fakkan Berthing Facilities – Design for FAL Oil Company, Sharjah, UAE.
- Ramhan Jetty Quay Wall Design for ADCO, Abu Dhabi, UAE.
- Zirku Quay Wall Extension Design for ZADCO, Abu Dhabi, UAE.
- Jebel Ali Gas Turbine and MSF Desalination Station, Dubai, UAE.
- Abu Dhabi Golf Course Falcon Club House, UAE.
- Al Maktoum Bridges and Flyovers for Dubai Municipality, UAE

ROBERT GALLER

Tunneling Expert

Having more than 34 years of experience, Mr. Galler is one of the tunneling and mining experts that is well recognized in Austria as well as worldwide. In addition to his academic and practice achievements, Mr. Galler is a leader and expert in many areas including developing advanced and resource efficient underground technologies, project cost studies, tunnel alignment selection, tunnel upgrades, tunnel designs, tunnel risk assessment and safety measures.

ACADEMIC BACKGROUND

B.Sc., Civil Engineering (1986), Austria
M.Sc., Mining Engineering (1993), Austria
Ph.D., Tunneling & Heavy Construction Engineering (1997), Austria

KEY QUALIFICATIONS

100+ Publications
Chair of Subsurface Engineering, Montan Universitat, Austria
Head of Department Mineral Resources Engineering
Member of the Management Board of Austrian Society of Geo-mechanics
Member of the Austrian National Com-

mittee and Austrian Representative of the International Tunneling Association
Chairman of the International Tunneling Association – Communication Education Training

Head of Department ZAB – Zentrum am Berg, a full scale underground research, development, education, and training center

AREAS of EXPERTISE

Dr. Galler is one of the tunneling and mining experts that is well recognized in Austria as well as worldwide. In addition to his academic and practice achievements, he is a leader and expert in the following:

- developing resource efficient and advanced underground technologies
- 3D/4D analysis of deep tunnels
- project costs and feasibility studies
- tunnel alignment selection
- upgrade of tunnels
- designs including concept designs
- high speed railway tunnels
- customized soil investigation geared for tunnel designs
- rock mechanics and related lab testing programs

- tunneling safety measures
- tunneling risk assessment
- special application solutions



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GEOTECHNICAL CONSULTANCY COMPANY
COVERING EARTHWORK, TUNNELING,
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AND MARINE PROJECTS



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