

## Other Services Covered By MEG

### Categories of Services

- Architectural & Engineering design covering all engineering disciplines.
- Value Engineering.
- Façade design & Engineering.
- Landscape "soft & hard" design and Built.
- Interior decoration.
- Construction management.
- Project management.

### Engineering's Design Services:

- Appraisal
- Strategic Brief
- Outline Proposals
- Detailed Proposals
- Final Proposals
- Production Information
- Tender documents
- Tender Action
- Mobilization
- Construction to Practical Completion
- After Practical Completion



Villa 494, North Al Choueifat - Fifth Settlement  
Cairo, Egypt  
Tel : +202 261 618 77  
Mobile : +2 0100 141 2794  
E mail : [adel.anwar@megconsultants.com](mailto:adel.anwar@megconsultants.com)  
Web Site: [www.megconsultants.com](http://www.megconsultants.com)



## INTRODUCTION TO OUR FIRM

Modern Engineering Group (**MEG**) is a consulting firm started on 1994 as architectural consulting firm with the name of Modern Architecture Group MAG until 2015 the name was changed to Modern Engineering Group MEG to include all engineering disciplines working jointly with prestigious engineering consultancy firms.

### MEG MISSION:

**MEG** philosophy is embedded in sustainable design principles that include economic, environmental and social factors that apply to all design projects. Social sustainability ensures the community can benefit from development that respects cultures and traditions.

Economic sustainability ensures that all our designs will add value to our clients' projects and portfolios.

It also means that there are tangible benefits of our projects to the local communities that ensures the success and longevity of the project into the future. In environmental terms we aim to address issues such as green building design and construction, low-carbon design, renewable energy, water efficiency, waste minimization, conserve natural resources and self-sufficiency , responsible sourcing of materials and self-sufficiency.

**MEG** Consultancy Firm target to lead our clients' projects to the best design solutions maintaining a better world for all.

### MEG VISION:

We aspire to be a progressive leader in the construction industry and to continuously improve the way our engineering is delivered worldwide.

**MEG** has an extensive experience in facade engineering gained through working with international companies involving facade construction and design processes such as **Ramboll, Whitby & Bird, Arup Façade Department, Meinhardt, Heitmann & Associates** for over twenty years; introducing new strategies and planning systems that would lead to a decrease in delivery durations; meet or exceed design performance criteria, as well as maintaining the project budget.

Working in projects designed by prestigious consultants such as **ZAHA HADID, NORMAN FOSTER, MICHEL GRAVE, NIKKEN SEKKEI, HOK, ATKINS, WATG, WZMH, 5+ Design & KEO** according to international codes & standards, including hotels, airports, office buildings, residential compounds, palaces and educational buildings.

**MEG** is currently providing façade consultancy service to varies office buildings in the flourishing business center located in East Cairo at the 90th southern road, owned by banks or major construction local developers in the country.

**MEG** contributed by publishing several technical articles in international engineering magazines. Hold, manage, and speaker for several international conferences. Partner, General Technical Coordinator & prime lecturer for the first façade diploma in the MENA region certified by repetitive American Universities.

Prepared the curriculum & prime lecturer of Façade Engineering Professional Diploma for **the American University in Cairo, (AUC)**. For registration and more details please follow the link:

<http://Schools.aucegypt.edu/sse/ess/Programs/Pages/façade.aspx>

## FAÇADE ENGINEERING

Façade Engineering is the art of resolving aesthetic, environmental and structural issues to achieve the enclosure of habitable space.

[“www.FacadeEngineeringSociety.org”](http://www.FacadeEngineeringSociety.org)

-The façade or exterior envelope of a building is the element that makes the internal space habitable, it acts as a filter allowing in beneficial elements of the external climate in whilst providing a barrier to those less desirable elements. It is often considered to be the highest risk of any project.

### SCOPE OF SERVICES

**MEG** Engineering Consultants concern themselves with everything to do with a building's external envelope above ground level. Such as:

- Cladding "aluminum, composite panel, GRP, GRG, GRC, terracotta, & louvers".
- Curtain wall "Conventional, structural glazing, & unitized".
- Stonework "Mechanically fixed, tied by wire, & glued".
- Glass "Frameless, Spider systems".
- Masonry "rated, non-rated, & cladding".
- Roofing systems.
- Other finishing materials and cladding types

**MEG** Engineering Consultants consider the performance of such materials and systems in various respects:

- Weather tightness
- Structural behavior
- Interaction with the primary structure
- Thermal gains and losses through the façade
- Occupant comfort and energy efficiency
- Shading
- Condensation
- Ventilation
- Durability
- Sustainability
- Natural light admittance
- Fire behavior of the building envelope
- Acoustic performance
- Safety and serviceability
- Security
- Maintenance and build-ability

**MEG** Engineering Consultants advice on both existing and new buildings. **MEG** can be involved in design, working alongside the architect, QS and structural and mechanical engineers, or can work within contracting or manufacturing. Alternatively,

**MEG** can be involved in surveying or diagnostic and remedial work as well as involved in research and testing.

### Façade engineering contributed values to the project

- Performance led design. Delivering facades that do what is required of them!
- Excellence in design.
- Risk control.
- Driving cost out.
- Continuity through fabrication and installation stages.
- Attention to quality as the design becomes a physical reality.
- Verifying performance.
- Cladding performance when the occupants move into the building.
- Troubleshooting when problems occur.

### How does this differ from what others in the design team already do?

Facades have become complicated beyond the skills of architects, structural and mechanical engineers. Facades require a dedicated engineer with a particular range of skills and experience, who understands their behavior and can undertake their design, manufacture and installation better, more efficiently and more comprehensively than can a traditional architect, structural or mechanical engineer.