

SENIOR > TASK

Competitors in the SENIOR Section can be 3rd, 4th year and master students at a university in the AEC field (architecture - master is equivalent to the 5th and 6th year, engineering, construction).

Competitors must respect calendar dates, procedures and registrations. All Phase 1 entries must be received by July 2nd, 12:00pm EEST.

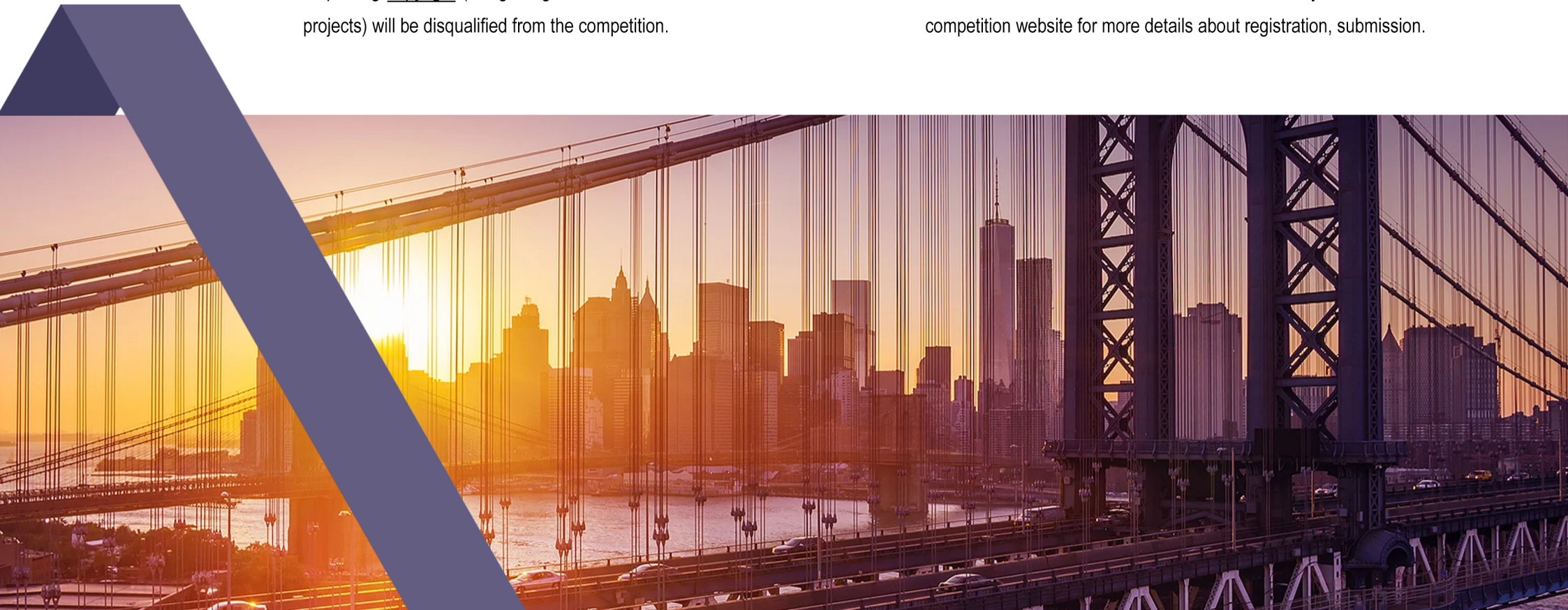
The project must be submitted in a PDF format (upload directly on the competition site) and in Allplan format (zip+inf - upload to Dropbox, Google Drive, wetransfer or a similar service and send us the link* in the Submit your Project form). Competitors will use the layout and label provided by the organizer which can be downloaded on the competition website.

All the submitted material must belong to the participant. Competitors not respecting copyright (using images, texts or drawn elements from other projects) will be disqualified from the competition.

Each entry in the section SENIORS - Structure will consist of 8-10 vertical layouts which will include the following:

- Formwork drawing of the current level
- Cross section / longitudinal section through the structure
- Beam reinforcement drawing
- Column reinforcement drawing
- Structural wall reinforcement drawing
- Slab reinforcement drawing (with bars and with meshes)
- Staircase ramp reinforcement drawing
- Relevant bills of material (concrete, formwork, fixtures)

Additional information is welcome but not mandatory. See RULES on the competition website for more details about registration, submission.



EVALUATION CRITERIA

- compliance with the constructive reinforcement <
norms in Eurocode 2
- preventing the reinforcement collisions in the nodes <
the organization of the project <
- the complexity of the structural geometry <
- the quality and level of detail of the <
presentation layouts

STRUCTURE

Create a 3D structural model of a building with a function of your own choice with a recommended total area of maximum 1000 sq.m. The structural system can be either concrete frames, concrete walls or confined masonry.

BIM CRITERIA

The model should include:

- a building structure with at least 2 levels to which you will add the infrastructure levels (foundations, basement, etc.);
- roof planes and/or custom planes;
- BIM elements (structural walls, columns, beams, slabs, strip or slab foundations);
- a reinforced concrete staircase;
- roof structure (can include rafters, beams, headers, hip and valley rafters, roof beams, posts, steel and timber elements, etc., depending on the chosen structural solution);
- formwork drawing for the current level;
- longitudinal or cross sections through the structural model;
- 3D reinforcement plans for the following elements: foundations, beams (straight, circular or leveled), columns, slabs (bar or mesh reinforcement), structural walls, staircase;
- reinforcement reports;
- bill of material (concrete, formwork, fixtures).

