

**WHAT'S PROJECT:**

THE WORLD IS LOOKING FOR DIFFERENT WAYS TO PROVIDE ALTERNATIVE ENERGY THAT IS NOT HARMFUL TO THE ENVIRONMENT DUE TO THE PROBLEMS OF CLIMATE AND HEALTH THAT EMERGED IN THIS AGE, AS A RESULT OF THE POLLUTION ON OUR PLANET AS A RESULT OF THE HUMAN OUTPUT OF RESEARCH AND INTENTIONAL AND UNINTENDED STUDIES AND ENVIRONMENTAL CONCLUSIONS SUCH AS EXTRACTING ENERGY FROM THE SUN AND FORM THROUGH THE SOLAR CELLS FOR YOU PEOPLE AND GOVERNMENTS BEGAN TO MOVE AND SEARCH FOR HOW TO EXTRACT AND BENEFIT FROM THEM AND THE FLOW OF MONEY AND HEALTH FOR YOU BEGAN RESEARCH CENTERS APPEAR IN COUNTRIES TO EXAMINE AND DEVELOP THE WAY TO EXTRACT AND PRODUCE AND BENEFIT FROM THEM.

**PROJECT GOALS:**

- HELP CREATE SUCH A TOP LOCAL AND GLOBAL FACILITATE TECHNOLOGY TRANSFER CONDUCT RESEARCH AND DEVELOPMENT ACTIVITIES CREATE A WONDERFUL EDUCATIONAL ENVIRONMENT FULL OF INTEREST FOR CENTER VISITORS

**FUNCTION AND SECTIONS:**

- THE BASIC FUNCTION OF THE PROJECT:**
  - MANAGEMENT
  - RESEARCH
- SUPPORTING FUNCTIONS:**
  - CULTURAL ACTIVITIES
  - SERVICE
- STAFF:**
  - ADMINISTRATIVE SECTION
  - RESEARCH DEPARTMENT
- VISITORS!**
  - MEN
  - WOMEN
  - CHILDREN
  - FAMILIES

**USERS:**

**CRITICAL ISSUES:**

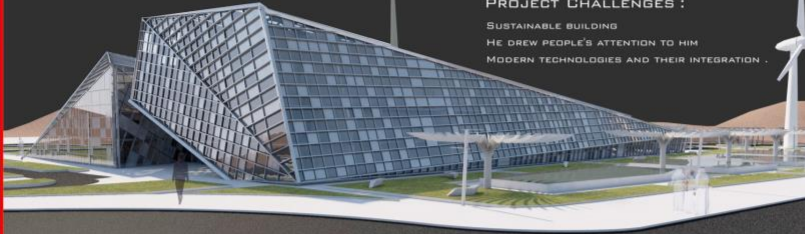
SEARCH AND MAKE IDEAS THE CENTER IS FOCUSED ON A GROUP OF EXPERTS AND ACADEMICS, PREFERABLY THOSE WHO COMBINE SCIENTIFIC AND PRACTICAL EXPERTISE.

**PROJECT CONTEXT:**

THE PROJECT BELONGS TO A RESEARCH SYSTEM, WHICH NECESSITATES THE EXISTENCE OF THE PROJECT FROM FACILITIES THAT SUPPORT RESEARCH AND TECHNOLOGICAL DEVELOPMENT.

**PROJECT CHALLENGES:**

SUSTAINABLE BUILDING HE DREW PEOPLE'S ATTENTION TO HIM MODERN TECHNOLOGIES AND THEIR INTEGRATION.



**SIMILAR EXAMPLES:**

**CHU HALL - SOLAR ENERGY RESEARCH CENTER**

ARCHITECT SMITHGROUPJJR

LOCATION LAWRENCE BERKELEY NATIONAL LABORATORY, BERKELEY, CA, USA

AREA M2 11887

YEAR 2015



**TECNIÁ BIOTECHNOLOGY INSTITUTE**

ARCHITECT AUGUSTO QUIJANO ARQUITECTOS

LOCATION CHALEKAL, YUC., MEXICO

AREA M2 5412.0

YEAR 2014



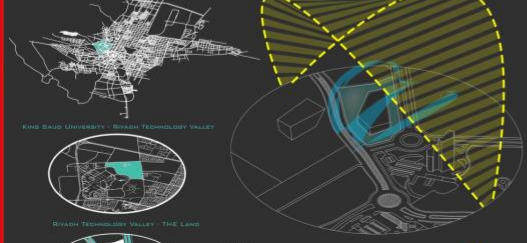
**ARCHITECTURAL STYLE:**



**SITE ANALYSIS:**

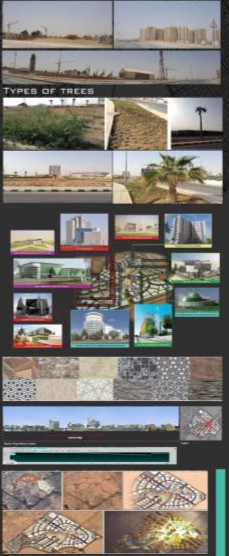
- LOCATION: SAUDI ARABIA - RIYADH ON THE CAMPUS OF KING SAUD UNIVERSITY LOCATION OF THE LAND: THE LAND IS LOCATED WITHIN THE RIYADH VALLEY TECHNOLOGY
- SITE FEATURES:**
  - IT IS LOCATED ON CAMPUS AND CLOSE TO THE COLLEGES, MAKING IT EASIER FOR RESEARCHERS, STUDENTS AND INTERESTED PEOPLE TO ACCESS
  - THE QUALITY OF THE RIYADH TECHNOLOGY VALLEY GAVE THE SITE IMPORTANCE IN ITS PRESENCE BETWEEN RESEARCH CENTERS, WHICH INCREASES THE POSSIBILITY OF COMMUNICATION FROM DIFFERENT DISCIPLINES AND EXCHANGE OF EXPERIENCES
  - HIS PRESENCE AT ONE OF THE MOST IMPORTANT ENTRANCES AT KING SAUD UNIVERSITY

SAUDI ARABIA - RIYADH

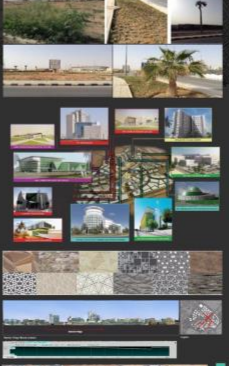


**RESULTS:** TAKE ADVANTAGE OF THE YARDS TO DISTRIBUTE THE LIGHT. THE USE OF HORIZONTAL SOLAR PRECIPITATORS. TAKE INTO ACCOUNT THE REFLECTED LIGHT FROM THE BUILDING TO THE OCEAN.

**SITE IMAGES**



**TYPES OF TREES**

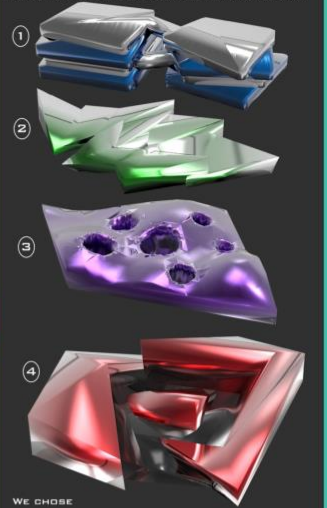


**CONCEPT:**

**VALLEY:** THE PROJECT IS LOCATED IN RIYADH TECHNICAL VALLEY UNIVERSITY OF KING SAUD UNIVERSITY TRACK THE MOVEMENT AND WRAP THE BLOCKS AROUND THE MAIN CORRIDORS

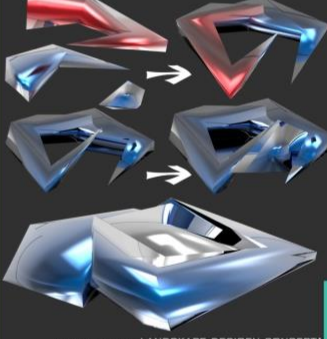
**TECHNOLOGY:** TECHNICAL METHODS AND CONSTRUCTION CHALLENGES THE BASIC PROPORTION OF TECHNOLOGY AND DEVELOPMENT OF BUILDING MATERIALS OR EVOLUTION OF ENVIRONMENTAL TREATMENTS USED

**CONTAINMENT!** THE RESULTS OF THE CENTER AND THE RESULTS OF ITS RESEARCH SHALL BE CONTAINED IN FRONT OF THE PEOPLE AND VISITORS AND SHALL BE THE HEART OF THE PROJECT



**WE CHOSE**

**NUMBER 4:** HERE WE FIND THE EXTERNAL DISASSEMBLY, WHICH WRAPS FROM ALL FACADES, SO THERE IS AN ENVIRONMENT WE WANT TO PRESERVE. THE DECONSTRUCTION DESIGN REPRESENTS THE TECHNOLOGY IN CONSTRUCTION AND DIFFERENT LEVELS HELP TO REDUCE THE BUILDING'S ACQUISITION OF THE SUN AND THE MODIFICATION OF THE BEST



**LANDSCAPE DESIGN CONCEPT:**

TO BE INSPIRED BY THE NETWORK OF SOLAR CELLS TO INSPIRE VISITORS WITH TECHNOLOGY AND PROGRESS.



**LAMP DESIGN CONCEPT:**

OUTDOOR LIGHTING IS DESIGNED TO REFLECT TWO ENVIRONMENTS WITHIN AND OUTSIDE THE PROJECT



**OUTDOOR CHAIRS DESIGN CONCEPT:**

THE OUTDOOR SEATING CHAIRS WERE INSPIRED BY THE DESIGN OF THE CENTER



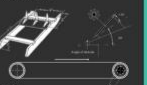
**CANS SUNSHADE CONCEPT:**

THE UMBRELLA DESIGN IS CONSISTENT WITH THE BASE AND IS CHARACTERIZED BY SOLAR BREAKERS TO SUN SHADE AND GAIN ENERGY



**ELEVATION DESIGN CONCEPT:**

THEY WILL BE SOLAR PANELS MOVING TO THE SUN TO GAIN SHADOWS INSIDE AND GAIN THE MAXIMUM AMOUNT OF RADIATION TO CONVERT IT INTO ENERGY

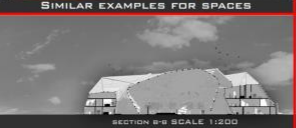
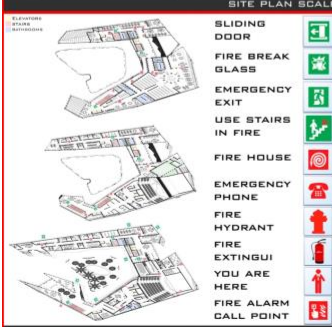
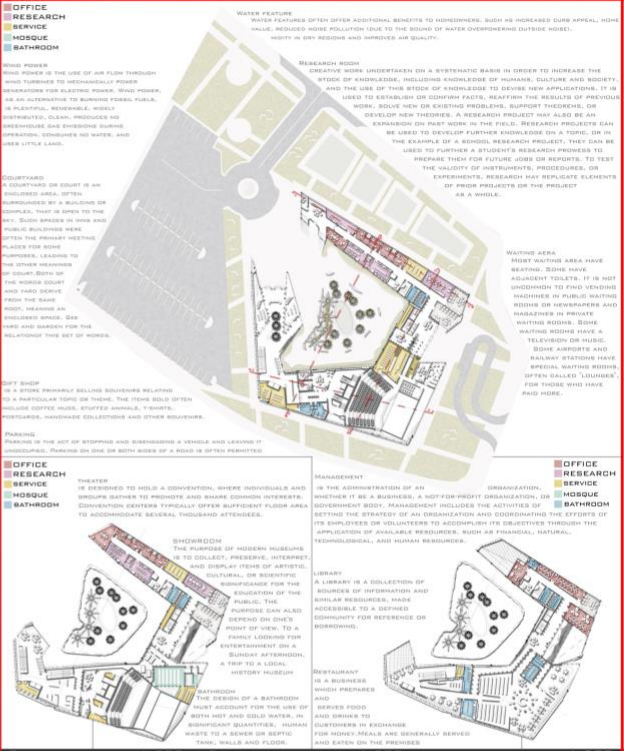
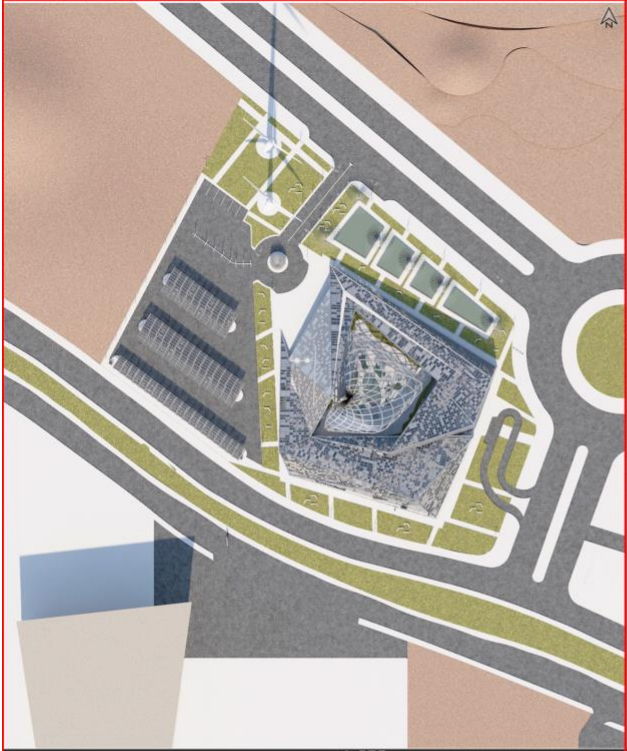


**SHADING DESIGN CONCEPT:**

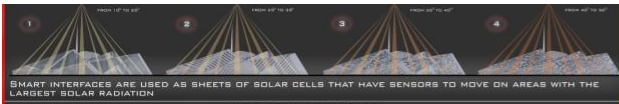
SINCE WE SUPPORT THE USE OF ALTERNATIVE ENERGY TO PRESERVE THE ENVIRONMENT, WE USED TO USE VISITORS ON THE SURROUNDING TREES, AND THE OUTPUT WAS TRANSFORMED INTO THE LIGHT OF THE ALUMINUM PANELS IN THE SHAPE OF A TREE



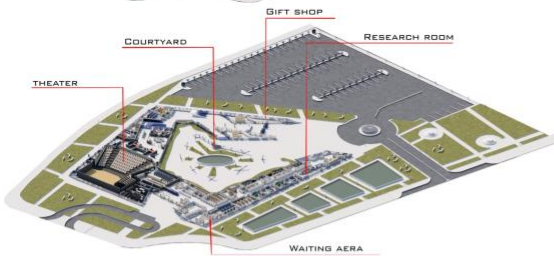
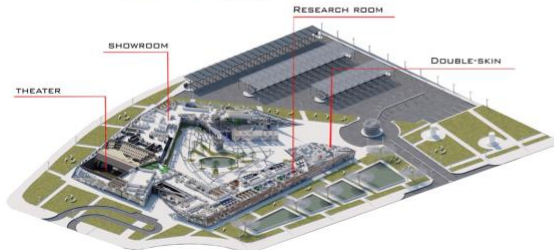
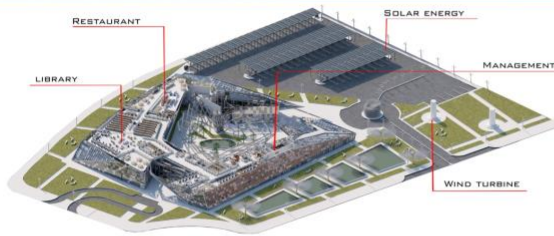




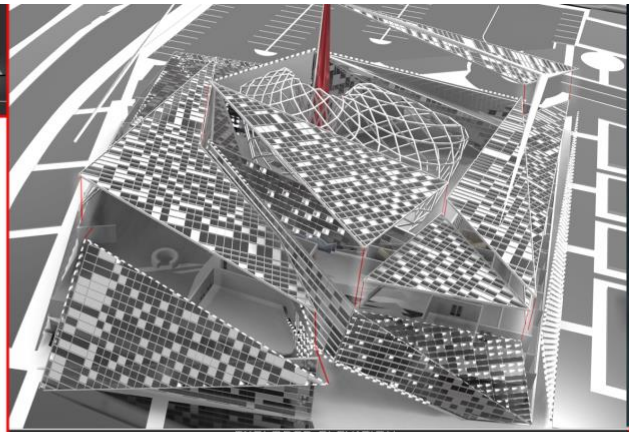




ELEVATION TECHNIQUE



3D PLANS



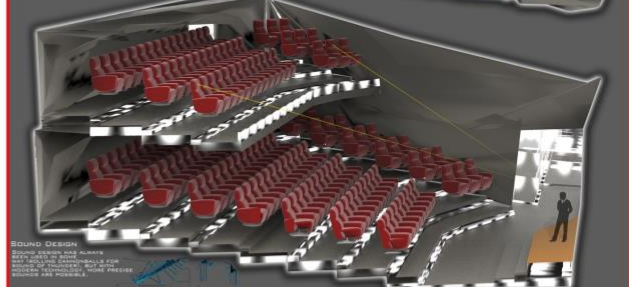
EXPLODED ELEVATION

SCENE DESIGN  
1. HELP SET THE TONE AND STYLE OF THE PRODUCTION  
2. EXPLAIN THE LOGIC AND REASON TO HOW THE PLAY TAKES PLACE

THE LIGHTING DESIGNER  
LIGHTING IS AN IMPORTANT FACTOR IN DESIGN TELL 18375 WITH LINELIGHT BUT FROM THEOLOGY SHIMMER CONTROL

3. DEVELOP A DESIGN CONCEPT CONSISTENT WITH THE DIRECTOR'S CONCEPT  
4. PROVIDE A CENTRAL IMAGE OR METAPHOR WHICH APPROPRIATE  
5. ENSURE THAT SCENERY IS COORDINATED WITH OTHER PRODUCTION ELEMENTS  
6. SOLVE DESIGN PROBLEMS

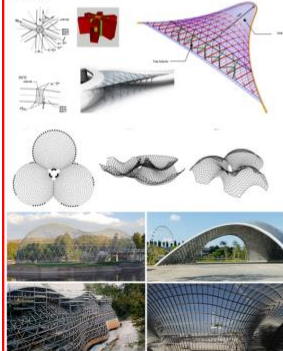
TO CREATE NATURAL STORIES TO ENHANCE CHANGE SHAPE, MOOD AND TONE NOW INTO TECH COMPUTERIZED



THEATER DETAILS

STRUCTURE

**GRIDSHHELL**  
A GRIDSHHELL IS A STRUCTURE WHICH DERIVES ITS STRENGTH FROM ITS DOUBLE CURVATURE (IN A SIMILAR WAY THAT A FABRIC STRUCTURE DERIVES STRENGTH FROM DOUBLE CURVATURE), BUT IS CONSTRUCTED OF A GRID OR LATTICE.

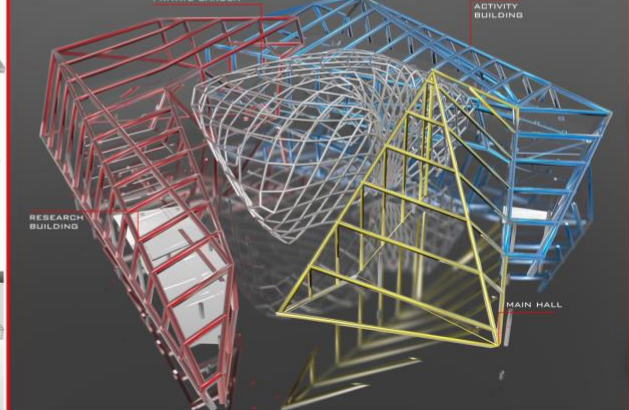


**PORTAL FRAME**  
PORTAL FRAME CONSTRUCTION IS A METHOD OF BUILDING AND DESIGNING STRUCTURES, PRIMARILY USING STEEL OR STEEL-REINFORCED PRECAST CONCRETE ALTHOUGH THEY CAN ALSO BE CONSTRUCTED USING LAMINATED TIMBER SUCH AS GLULAM.



STRUCTURE SYSTEM

STRUCTURAL PERSPECTIVE

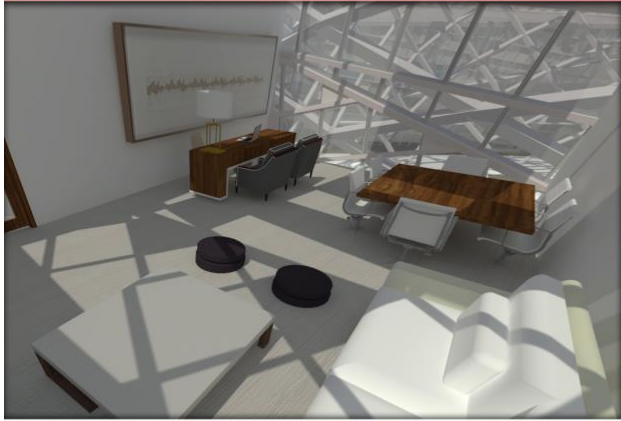




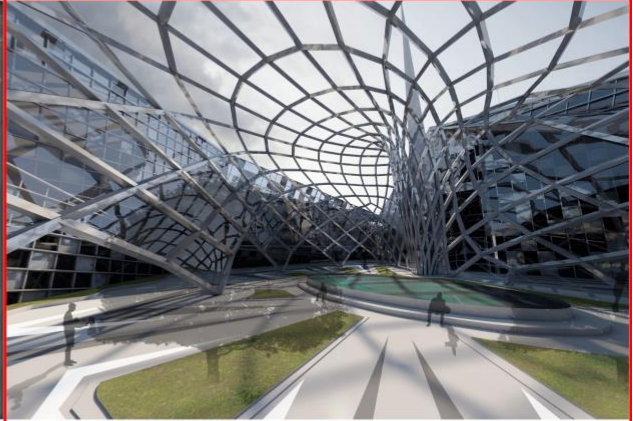
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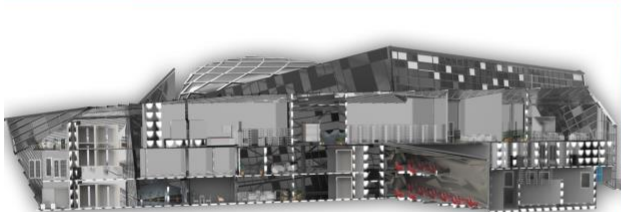
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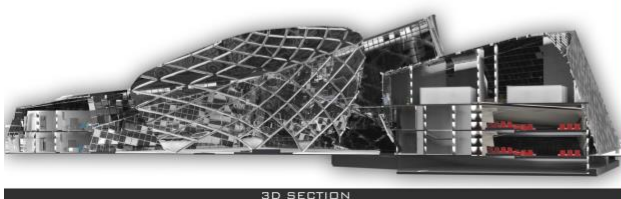
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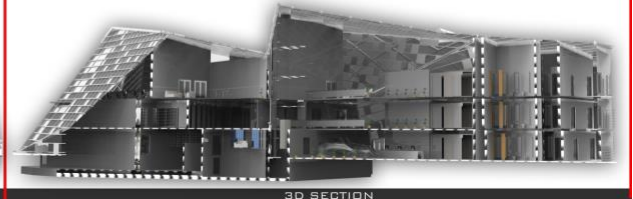
3D SECTION



3D SECTION



3D SECTION



3D SECTION